Panasonic

Video Cassette Recorder

NV-J40B

Operating Instructions

VHS
PAL

Before attempting to connect, operate or adjust this product, please read these instructions completely.

VQT4179

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Information for Your Safety

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

This apparatus was produced to BS800.

FOR YOUR SAFETY

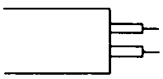
■ **DO NOT REMOVE OUTER COVER.**

To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

■ **AC MAINS LEAD CONNECTION**

The wires in the mains lead of this apparatus are coloured in accordance with the following code.

Important



Mains Lead

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

Cautions

Please read these cautions before you operate this VTR.

Cassette Compartment Door

When first unpacking the unit, you may notice that the cassette compartment door is partially open. This condition is due to the operation of a safety device designed to protect the unit from vibration during shipment; it is not a malfunction. When the AC mains lead is connected to a mains outlet, the door will return to its original position.

Avoid Sudden Changes in Temperature

If the VTR is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the VTR.

Humidity and Dust

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

Do Not Obstruct the Ventilation Holes

The ventilation holes prevent abnormal increase in temperature. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VTR away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

Keep Magnets away

Never bring a magnet or magnetized object near the VTR because it will adversely affect the performance of the VTR.

No Fingers or Other Objects Inside

Touching internal parts of this VTR is dangerous, and may cause serious damage to the VTR. Do not attempt to disassemble the VTR. There are no user serviceable parts inside.

Keep Water away

Keep the VTR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, consult qualified service personnel.

Lightning

To avoid damage by lightning, disconnect the aerial plug from the VTR.

Cleaning the VTR

Wipe the VTR with a clean, dry cloth. Never use cleaning fluid, or other chemicals. And do not use compressed air to remove dust.

Stacking

Place the VTR in a horizontal position, and do not place anything heavy on it.

Video Head Clogging

The video heads place picture signals on the tape during recording and read picture signals during playback and they are, therefore, of critical importance for the picture quality. To ensure that they can always provide optimum picture quality, this VTR is equipped with an Auto Head Cleaning Function that removes tape particles and dust from the video heads.
However, if the VTR is used over extremely long periods of time, these heads may still become dirty and clogged. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such a symptom case occurs, have the recorder checked by qualified service personnel.

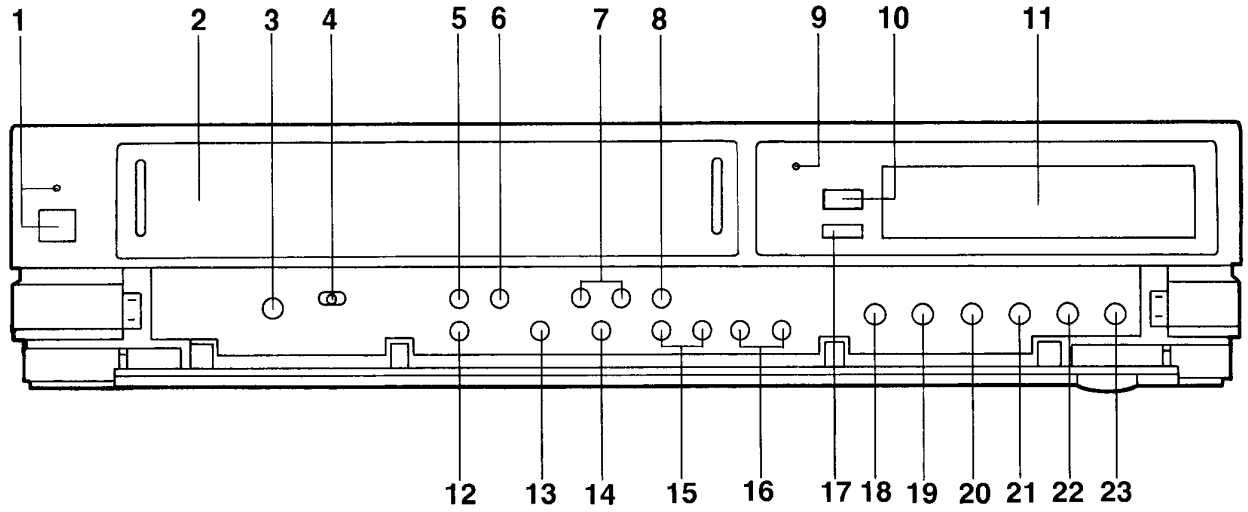
Condensation may form in the VTR if

- The VTR is in a room where the heater has just been turned on.
- The VTR is in a room with steam or high humidity.
- The VTR is brought from cold surroundings into a well-heated room.
- The VTR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

Note:
Do not operate the VTR for at least 1 hour if any of the above conditions occur.
This VTR does not incorporate a dew sensor.

Controls and Components

FRONT



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21	Stop Button (■)	15
22	Pause/Still Button (❚❚)	15
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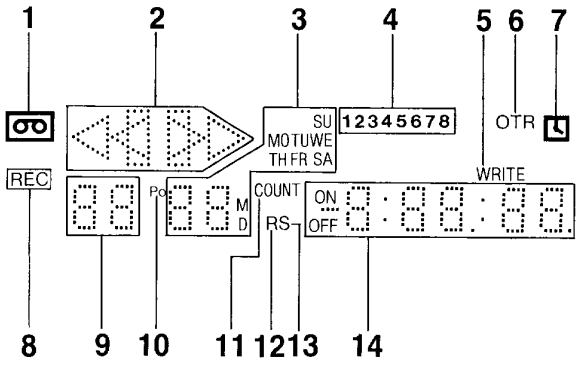
Controls and Components (Cont'd)

Multi-Function Display



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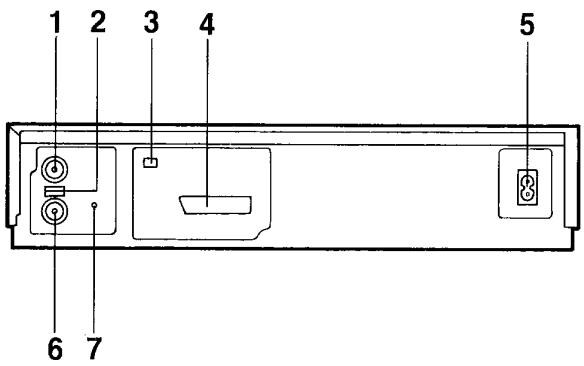
REAR



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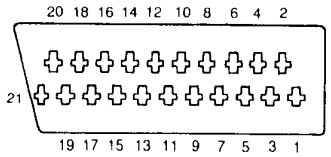
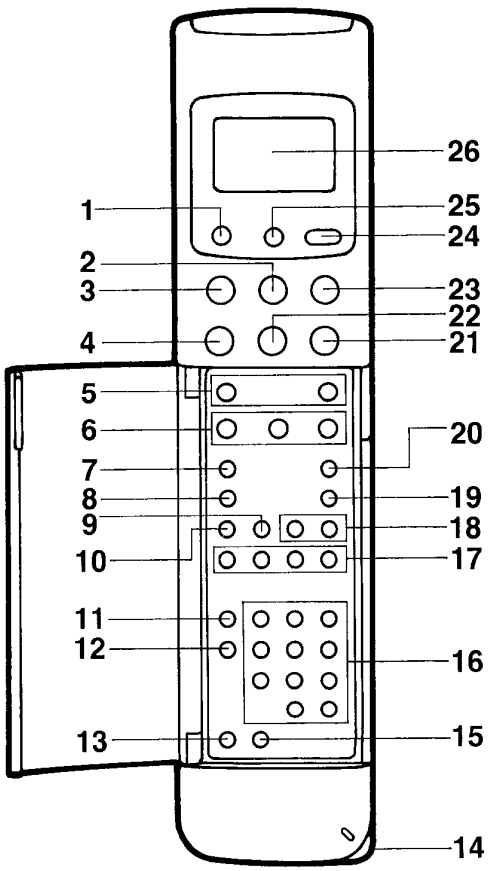
4 Connections of the AV Socket



1	AUDIO OUTPUT	11	No connection
2	AUDIO INPUT	12	No connection
3	AUDIO OUTPUT	13	No connection
4	AUDIO GND	14	No connection
5	No connection	15	No connection
6	AUDIO INPUT	16	No connection
7	No connection	17	VIDEO GND
8	SWITCHING VOLTAGE	18	No connection
		19	VIDEO OUTPUT
9	No connection	20	VIDEO INPUT
10	No connection	21	GND

Infra-Red Remote Controller

Part Number: VEQ1252



1 VTR On/Off Button

2 Stop Button (■)

3 Pause/Still Button (❚❚)

4 Rewind ◄◄/Review ⏪ Button

5 Record Buttons

6 Slow Buttons

7 Clock/Counter Selector

8 Monitor Button

9 Time Search Button

10 Index Button

11 Programme Button

12 Next Button

13 Timer Record Button

14 Bar Code Reading Section

15 Clear Button

16 Programme Position (Channel) Selector Buttons

17 Auto Play Buttons

18 Tracking/V-Lock "+" and "–" Buttons

19 Input Signal Selector

20 Reset Button

21 Fast Forward ►►/Cue ⏩ Button

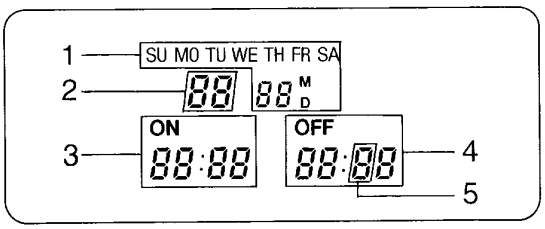
22 Play Button (►)

23 Still Advance Button (❚►)

24 Transmit Button

25 Digital Scanner On/Off Button

26 Display



1 Date Display

2 Channel Display

3 Start Time Display

4 End Time Display

5 Check Indicator

Power Source for the Remote Controller

■ The Remote Controller is powered by 2 IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

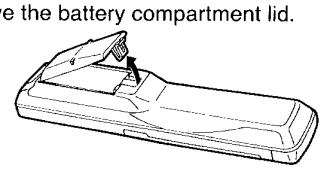
CAUTION FOR BATTERY REPLACEMENT

- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

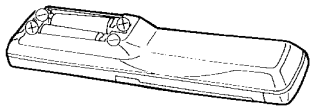
Infra-Red Remote Controller (Cont'd)

Load the batteries as follows:

1 Remove the battery compartment lid.



2 Place the batteries in the battery compartment as indicated inside the battery compartment.



3 Replace the lid.

How to Operate the Remote Controller (Digital Scanner)

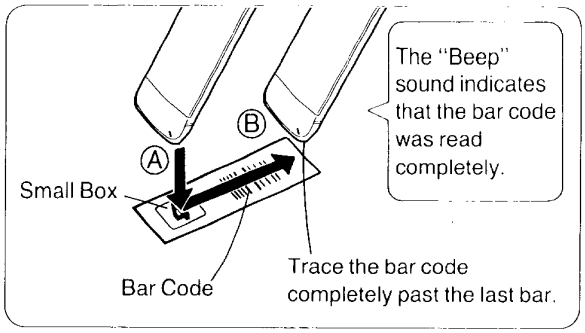
Press the Digital Scanner On/Off Button to "ON".

- If no operation is performed for more than 25 seconds (4 minutes during setting of the clock time), the scanner will automatically switch over to the power-saving standby condition and the lamp will go off. (In this case, if bar codes have already been read but not yet transmitted to the VTR, the data will be cancelled.)
- When the lamp is not lit, press the button to turn it "ON" again.

Tracing the Bar Codes

(A) Place the Remote Controller on the Small Box.

(B) Trace the bar code quickly in the direction of the arrow.


The "Beep" sound indicates that the bar code was read completely.
Small Box
Bar Code
Trace the bar code completely past the last bar.

Note:

The following Bar Codes on the Programming Sheet cannot be used with this unit, even though codes can be read and transmitted to the VTR.

Column	Bar Code
REMOTE MODE	VTR1, VTR2
RECORDING	SP, LP
PROGRAMME	AV2

- If the bar code "VTR 2" is traced by mistake, transmission to the VTR becomes impossible. To remedy this condition, trace the "VTR 1" bar code. (The indication "VTR 2" in the Display on the Remote Controller will disappear.)

- Treat the Programming Sheet with care. If the sheet gets dirty or scratched, the bar code reading may become impossible.
- Protect the Remote Controller from strong shocks and vibration. Keep it away from water and places with high temperature and humidity.
- If the bar code is traced slowly, it cannot be read correctly.
- When there is no "Beep" sound, the reading of the bar code is incomplete. Trace the bar code again.
- When using the Programming Sheet, put it on flat surface: Reading the bar codes while holding it in your hand or bending it, may result in incorrect operation.
- Do not deviate from the bar code, nor stop tracing halfway.

Note:

- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver in the VTR is about 30° for each side from the centre.
- The unit should be used within a range of about 7 meters from the front of the VTR.

Recommendation

After the programming of timer recording(s) is completed, press the Digital Scanner On/Off Button so that the indications in the Display disappear, in order to save battery power.

When the Bar Codes Cannot be Read

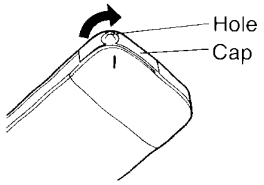
Although the lamp in the tip of the Bar Code Reading Section lights up:

- No figures appear in the Display
- No beep sounds is heard;

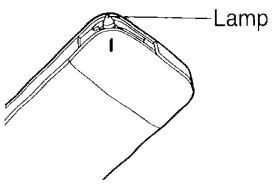
The tip of the Bar Code Reading Section is probably clogged with dirt.

Cleaning

1 Remove the cap of the Bar Code Reading Section.
- Remove dirt and dust from the hole of the cap.



2 Gently wipe the tip of the lamp with a soft cloth.
- Reattach the cap by inserting it until it locks with a click.

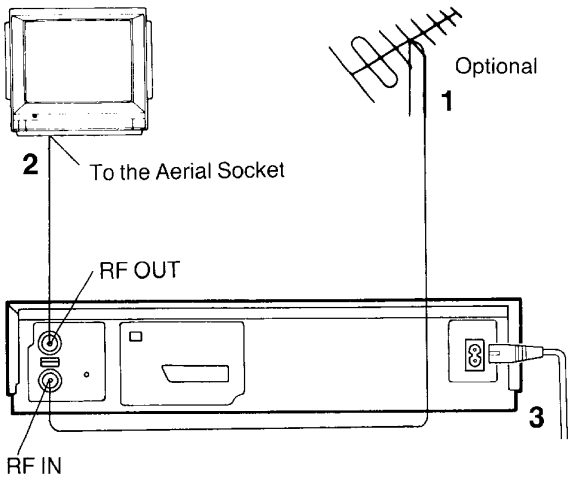


Installation

Consult your Panasonic dealer for advice about a suitable cable to use for connection to the AV Socket.

Connection to a TV Set without AV Socket

TV Set
(Select the video channel)



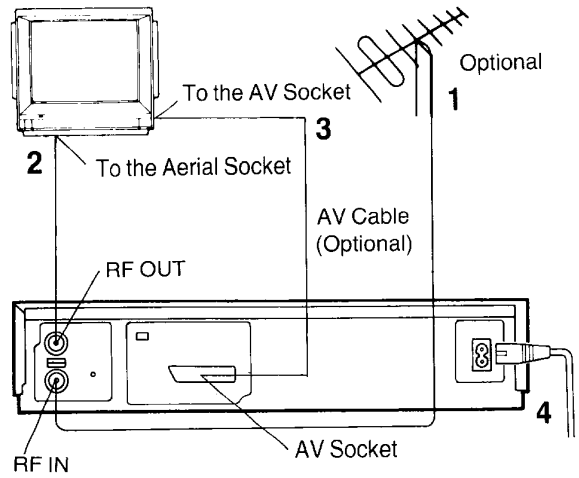
1 Connect the external aerial to the RF Input Socket on the VTR.

2 Connect the aerial terminal on your TV set to the RF Output Socket on the VTR with the supplied DIN-DIN Coaxial Cable.

3 Connect the AC Mains Lead to the AC Mains Socket of the VTR to the mains outlet.

Connection to a TV Set with AV Socket

TV Set with AV Socket
(Set to position "AV" for playback)



1 Connect the external aerial to the RF Input Socket on the VTR.

2 Connect the aerial terminal on your TV set to the RF Output Socket on the VTR with the supplied DIN-DIN Coaxial Cable.

3 Connect the AV Socket on the VTR to the AV Socket on the TV set.
- The AV Socket allows recording and playback of picture and sound. This connection can be used with TV sets which are also equipped with a AV Socket.

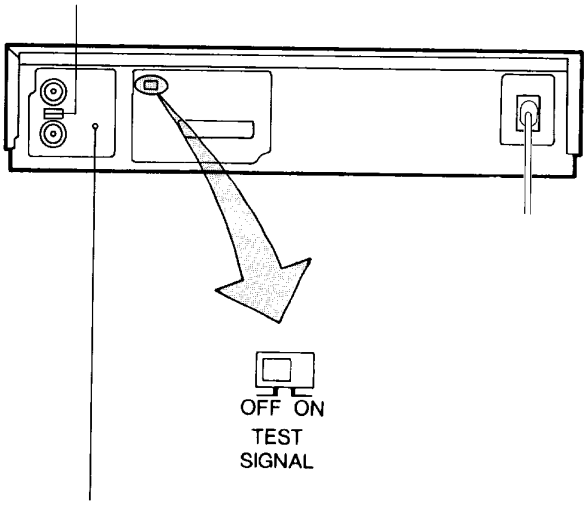
4 Connect the AC Mains Lead to the AC Mains Socket of the VTR to the mains outlet.

- If a AV cable is used for the VTR-to-TV connection and both the VTR and the TV offer a setting for "AV", set only one of them to "AV". If both are set to "AV", picture and sound distortion may appear with some types of TV sets.
  On this VTR, the "AV" setting is programme position "A1". Select it with the Input Signal Selector Button on the Remote Controller or the Channel Selection Up or Down Button on the VTR.
- Some TV sets can automatically switch to the "AV" input mode when VTR playback starts via the AV cable. But some TV sets have to be switched manually to the AV mode.
- For recording from a TV's tuner via the AV cable, set the VTR to the AV mode.

Tuning the TV Set to the Video Playback Channel

The adjustments described on this page are not necessary, if the VTR is connected to the TV set via the AV socket.

RF Signal Level Switch:
Used to attenuate the reception of the UHF aerial signals. If the reception is normal, set to "HIGH". If the signal is strong (stripes appear in the upper part of the picture), set to "LOW".



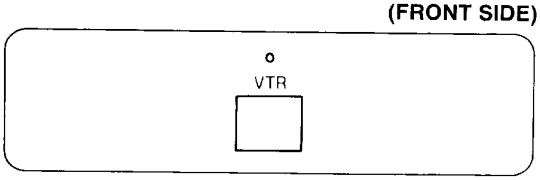
Video Playback Channel Adjustor
To change the video playback channel

Note:
The adjustment should be done slowly and carefully using a small screwdriver.
If in doubt, consult your authorised dealer for advice.

1 Turn the TV set on and select the AV programme position or another programme position that is not occupied by any TV station.

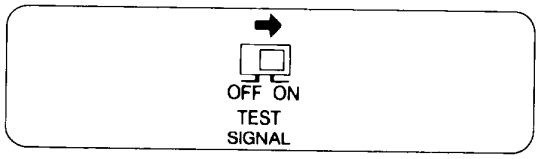
2 Press the VTR On/Off Switch to turn the VTR On.

(FRONT SIDE)

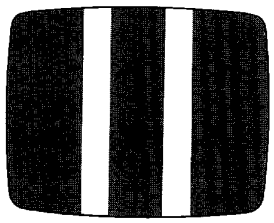


• The corresponding indicator lights up.

3 Set the Test Signal Switch to "On".

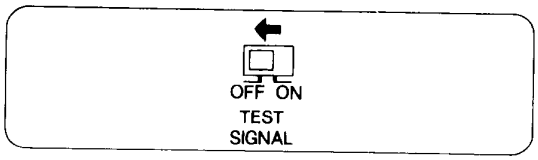


4 Tune the selected programme position of the TV set to UHF approx. channel 36.
Confirm on your TV set that the received test pattern is as shown.



• If UHF channel 36 is already occupied by a TV station in your area, the video playback channel can be changed from channel 32 to 40 on the back of the VTR by using a small screwdriver.

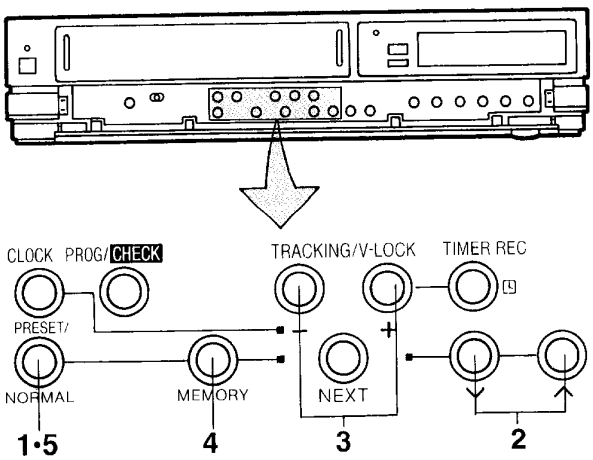
5 Set the Test Signal Switch to "Off". Your TV is now ready to receive the RF output signal from the VTR.



• When using the test pattern to tune the TV set to the video playback channel of the VTR, make sure that the two units are not connected via AV cable.

Setting the Tuner in the VTR

The tuner in the VTR makes it possible to receive TV broadcasts and to record these programmes without having to turn on the TV set. The frequency band of this model extends from UHF channel 21 to 69.



Preparation

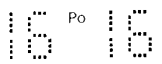
- Turn the TV set on and select the programme position (channel) which you have tuned to the video playback channel.
- Press the VTR On/Off Switch to turn the VTR on.

Tuning Procedure

1 Press the Preset/Normal Button on the VTR.
The indication on the Multi-Function Display changes from the clock indication to the position indication.

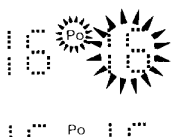
2 Press the Channel Up or Down Button to select a programme position (channel) which you want to tune to a TV station.

Display of the programme positions 1–99

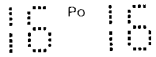


The tuner in the VTR can be preset with up to 99 stations.

3 Press the "+" or "–" Button.



During the station search (The position indication flashes on and off.)



Tuned condition

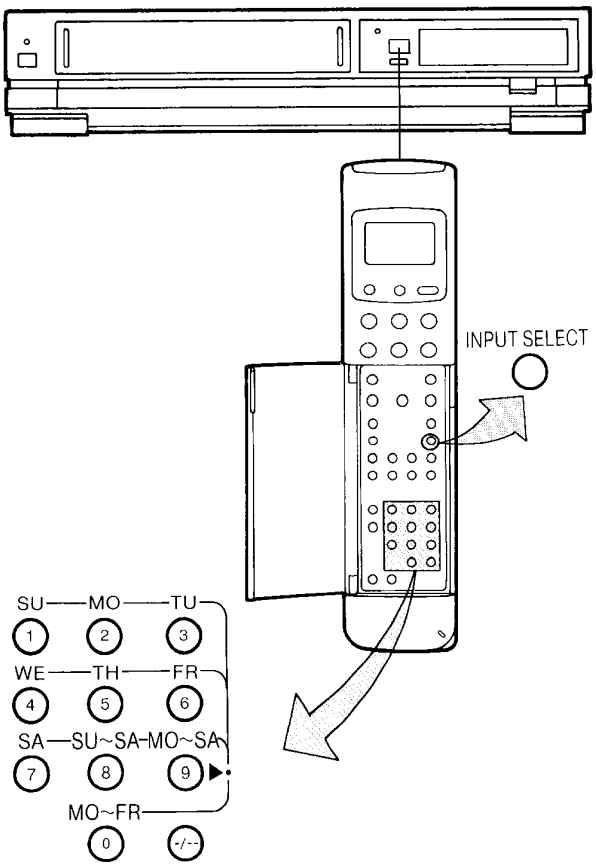
- When the tuning of the station is completed, the indication stops flashing.
- At every push of the "+" or "–" Button, the station will be tuned automatically.

4 Press the Memory Button.
(Programme position display flashes once.)

Repeat steps 2–4 for each channel you want to tune to a station.

5 Press the Preset/Normal Button again.
The indication on the Multi-Function Display changes back to the previous indication.

How to Select the Programme Position (Channel) on the Remote Controller



select channel	press button	
1–9	1 — 9	respective channel
10	-/-- → 1 → 0	
20	-/-- → 2 → 0	
11–99 for example 32	-/-- → 3 → 2	

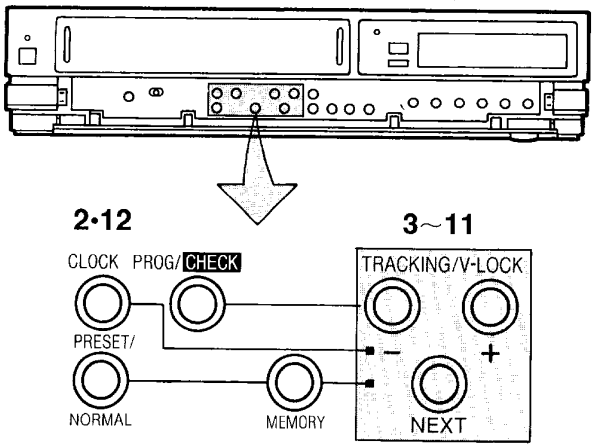
If more than 5 seconds pass between the first, second and third push, the channel will not be changed normally.

To Select an External AV Source:

To select the signals which are input via the AV Socket, press the Input Signal Selector. (The "A1" Indicator in the Multi-Function Display lights up.)

Setting the Clock to the Present Time

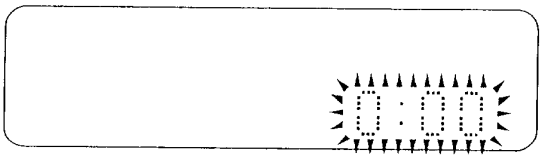
The built-in digital clock employs the 24-hour system.



For Example: Set the clock for Sunday, October 10, 1999, 9:10.

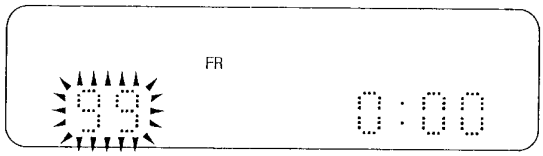
- Connect the VTR to the mains outlet.
- Press the VTR On/Off Switch to turn the VTR On.

1 When connecting this VTR to the mains or after a long power failure, the indications flash.



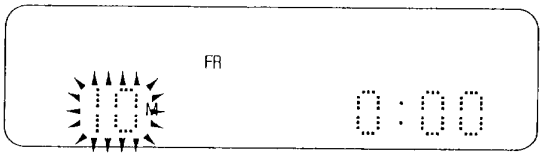
2 Press the Clock Button to start the date and time setting.

3 Press the "+" or "−" Button to set the year.



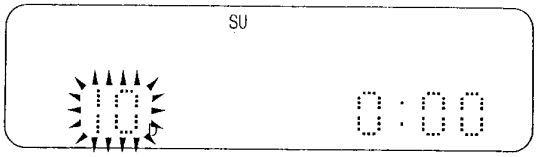
4 Press the Next Button.

5 Press the "+" or "−" Button to set the month.



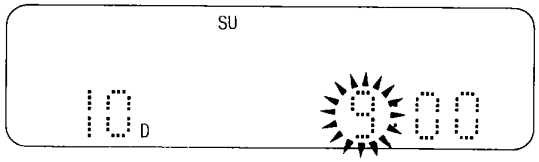
6 Press the Next Button.

7 Press the "+" or "−" Button to set the date.



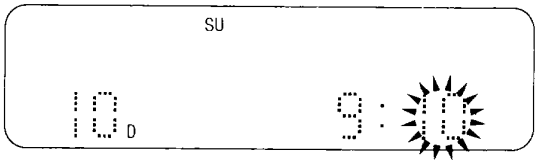
8 Press the Next Button.

9 Press the "+" or "−" Button to set the hour.

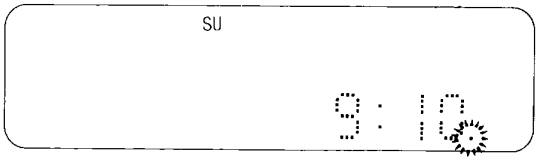


10 Press the Next Button.

11 Press the "+" or "−" Button to set the minute.



12 Press the Clock Button when the present time becomes exactly 9:10'00".



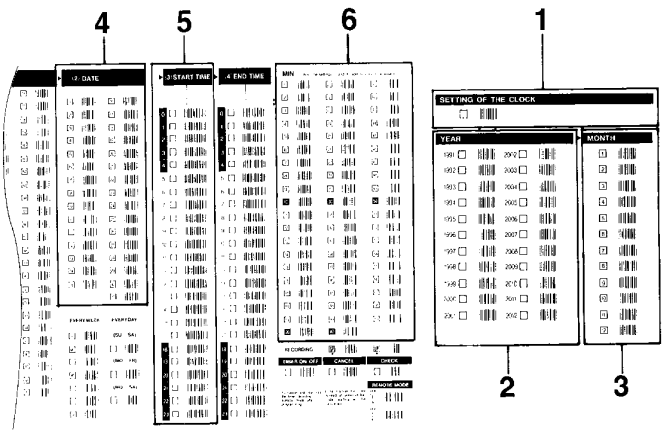
At every push of the Next Button, the flashing indication changes in the following order.

YEAR→MONTH→DATE→HOUR→MINUTE

- In case of a power failure, the timer back-up system maintains the clock operation and timer content for at least 60 minutes. However, depending on the charging time and the memory content, the back-up time may be considerably longer. However, it takes more than 60 minutes for the back-up circuit to become operational, after the VTR is connected to the mains.
- The Timer Record Function should be set to "Off", otherwise the VTR cannot be operated normally. In this case, the Timer Record Indicator "⏲" will flash to warn you.
- During date setting, the corresponding day is simultaneously set.
- The clock/timer of the VTR is programmed with the calendar up to the end of the year 2087.
  The indications 88-99 are for the years 1988–1999.
  The indications 00-87 are for the years 2000–2087.

Setting the Clock to the Present Time (Cont'd)

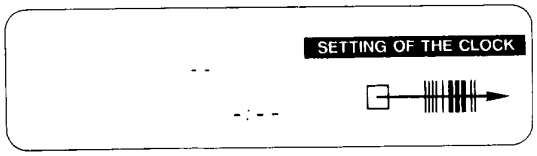
Setting the Clock to the Present Time Using the Bar Codes



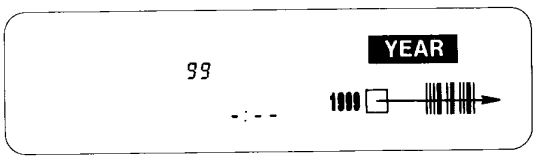
Preparation

- Press the Digital Scanner On/Off Button to turn it "ON".

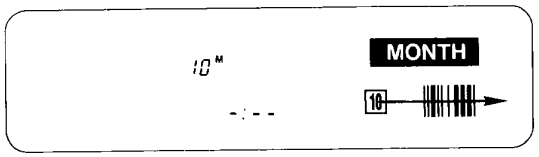
1 Trace the bar code "SETTING OF THE CLOCK".



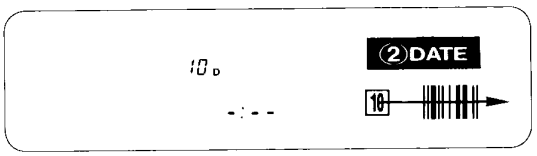
2 Trace the bar code for the year (YEAR).



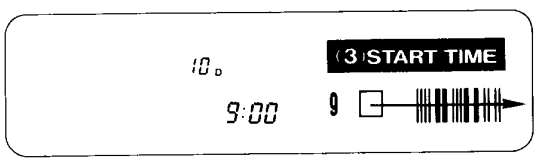
3 Trace the bar code for the month (MONTH).



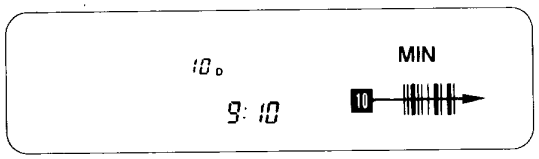
4 Trace the bar code for the day of the month (DATE).



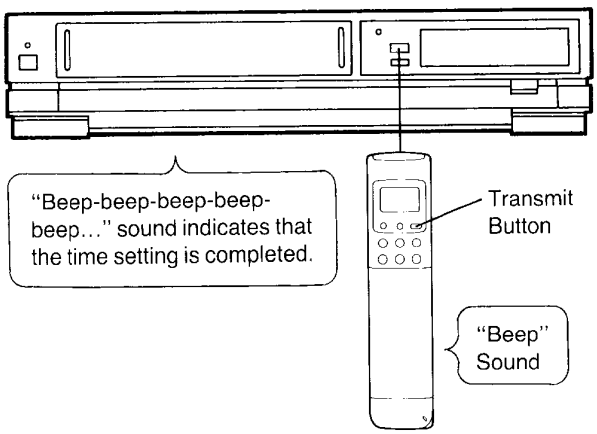
5 Trace the bar code for the hour (START TIME).



6 Trace the bar code for the minute (MIN).



7 Press the Transmit Button (Remote Controller) and then confirm that the time is displayed in the Multi-Function Display of the VTR.

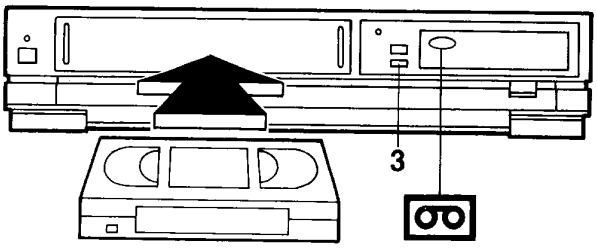


8 Press the Digital Scanner On/Off Button to turn it "OFF".

- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- If the Remote Controller is left with no operation performed for more than 4 minutes, it will automatically switch over to the power-saving standby condition and the lamp in the reading tip goes out. In this case, bar codes that have already been read (but not yet transmitted to the VTR) will be cancelled.
- The bar codes "SETTING OF THE CLOCK", "YEAR" and "MONTH" are located on page 3 of the Programming Sheet.

The Video Cassette

Inserting a Video Cassette (Auto Operation)



1 Insert the video cassette as shown. The VTR will be turned on automatically and the cassette will be automatically drawn into the VTR.

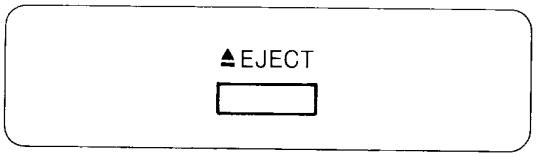
2 When a video cassette is inserted, the "📼" mark will appear.

Notes:

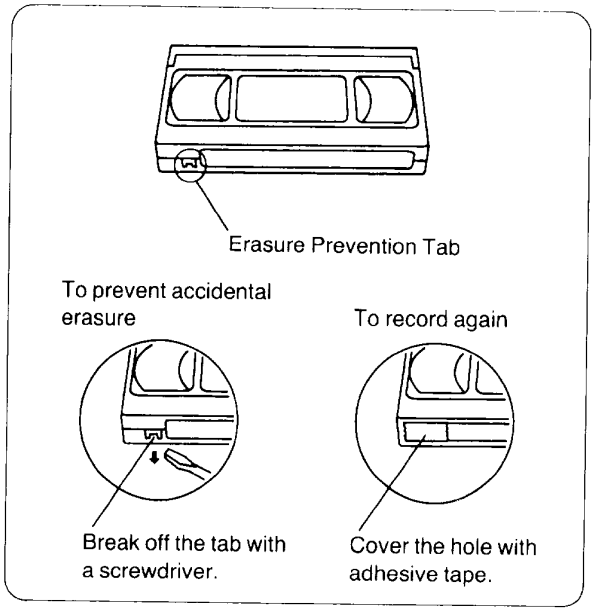
- When a video cassette with broken out erasure prevention tab (for example a pre-recorded tape) is inserted, playback will start immediately.
- Use VHS video cassette tapes only.

Removing a Video Cassette

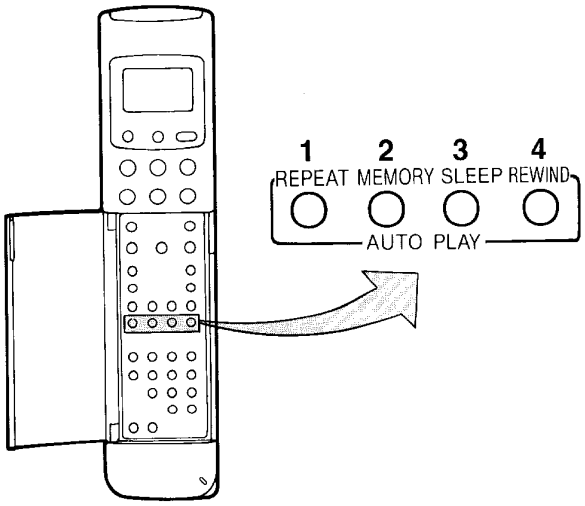
3 Press the Eject Button (⏏).



Simply press the Eject Button; the VTR turns itself on, ejects the cassette and turns itself off again.


Erasure Prevention Tab
To prevent accidental erasure
To record again
Break off the tab with a screwdriver.
Cover the hole with adhesive tape.

Auto Operation

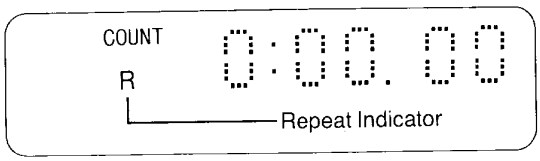


Convenient Automatic Playback Functions

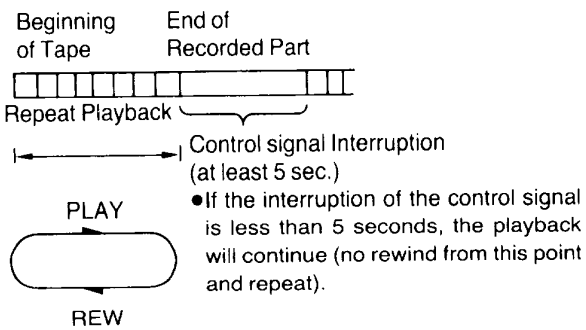
The following convenient automatic playback operations can be activated simply by pressing a single button on the Remote Controller.

1 Repeat Playback

When the Repeat Button is pressed, the "R" Indication will light up in the Multi-Function Display on the VTR and playback will start. When the tape reaches the end of its recorded portion, it will automatically be rewound to the beginning and playback will then start again. This process will be performed repeatedly.



- The playback will continue until the VTR detects the end of the video recording (no control signal for more than 5 seconds). At this point, the tape will be rewound to the beginning and the playback will be repeated.



- If the interruption of the control signal is less than 5 seconds, the playback will continue (no rewind from this point and repeat).

To stop the Repeat Playback, press the Stop Button.

Note:
If a short tape portion is played back many times, the tape may become damaged at that part.

2 Memory Playback

When the Memory Button is pressed while the VTR is in the Stop mode, the tape is then fast-forwarded or rewound and it will be stopped at the tape counter position "0:00.00", and playback will then start from that position.

3 Sleep Playback

When the Sleep Button is pressed, playback will start. As soon as the tape reaches the end of its recorded portion, it will be automatically rewound to the beginning, and the VTR will then turn itself off.

4 Rewind Playback

When the Rewind Button is pressed, the tape will be rewound. As soon as the beginning of the tape is reached, playback will start automatically.

Auto Operation

Auto VTR On
When a cassette is inserted, the VTR turns itself on automatically.

Auto Play
When inserting a video cassette which has the erasure prevention tab removed, playback will start automatically.

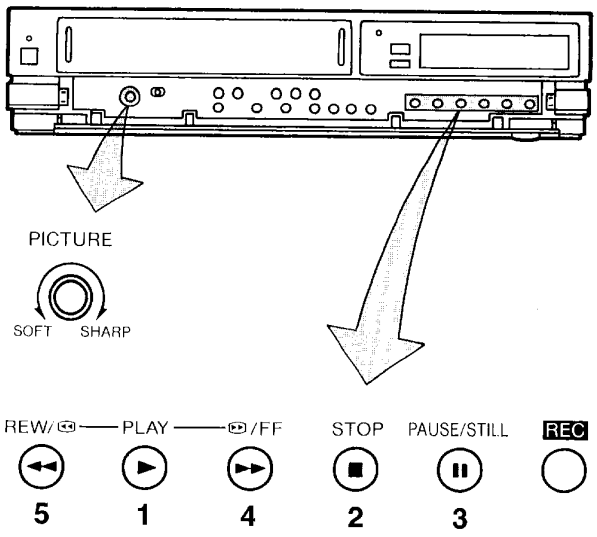
Auto Rewind
When the tape reaches its end during recording (except OTR and timer recording) or playback, it will automatically be rewound to the beginning.

VTR-Off Eject
When the VTR is off, the inserted cassette can be ejected simply by pressing the Eject Button, and VTR will automatically turn itself off again.

Auto Head Cleaning Function

This VTR features a special function that automatically removes tape particles and dust from the video heads to ensure continuously superior picture quality. While the Head Cleaning Function is working, some mechanical noise can be heard from the VTR. However, this is no malfunction.

Playback

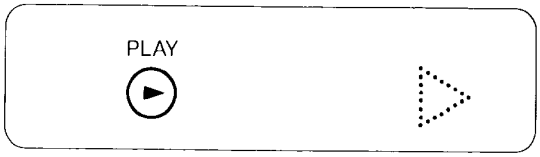


Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a recorded video cassette.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Turn the TV set on and select the video playback channel.
- Set the Noise Filter/Edit Selector to "Off".

1 Normal Playback

Press the Play Button (▶).



- Control the picture as you like with the Picture Sharpness Control (sharp or soft contours).

2 To Finish Playback

Press the Stop Button (■) to stop the playback.

3 Super Still Playback

When the VTR is in the playback mode, press the Pause/Still Button (❚❚) to view a still-picture. To continue the normal playback, press the Play Button (▶) or this button again.

- If you leave the VTR in the still playback mode for more than 5 minutes, the VTR will automatically switch over to the Stop mode to protect the tape and the video heads.

4 Cue Playback

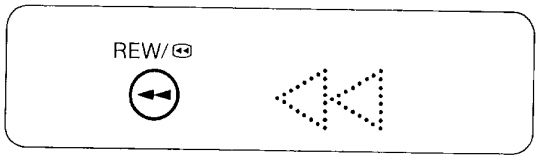
For short Cue playback (during normal playback), keep the Fast Forward ▶▶/Cue ▶▶ Button pressed for as long you want the tape to be played back at high speed in forward direction.

For longer Cue playback (during normal playback), quickly press the Fast Forward ▶▶/Cue ▶▶ Button to start the Cue playback. To change back to normal playback, press the Play Button (▶).

5 Review Playback

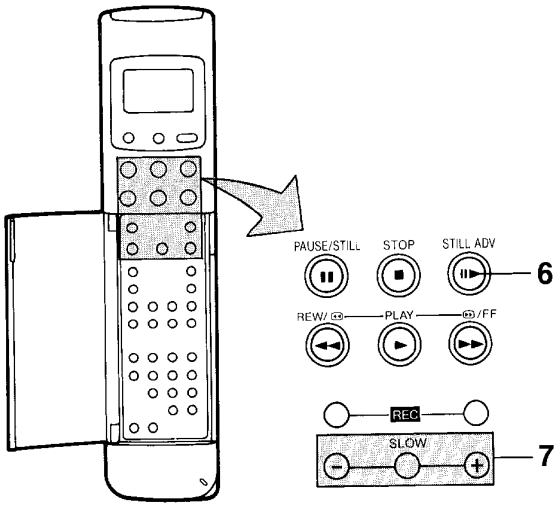
For short Review playback (during normal playback), keep the Rewind ◀◀/Review ◀◀ Button pressed for as long you want the tape to be played back at high speed in reverse direction.

For longer Review playback (during normal playback), quickly press the Rewind ◀◀/Review ◀◀ Button to start the Review playback. To change back to normal playback, press the Play Button (▶).



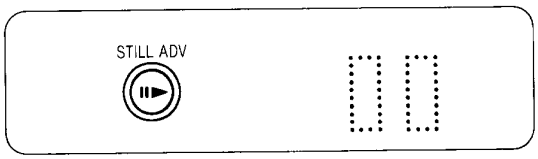
- When Cue or Review playback continues for more than 10 minutes, the VTR will automatically switch back to the normal playback mode.

Using the Remote Controller



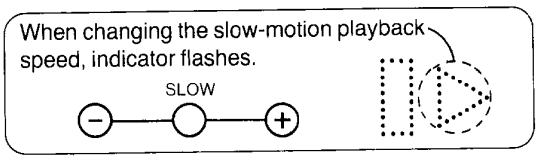
6 Super Still Advance Playback

Press the Still Advance Button (II▶) while the VTR is in the still playback mode. Each time you press this button, the still-picture will advance one single field.



7 Super Fine Slow Playback

During normal playback, the Slow-motion playback can be activated by pressing the Slow Button. The slow-motion playback speed can then be varied by using the Slow "+" or "−" Button.



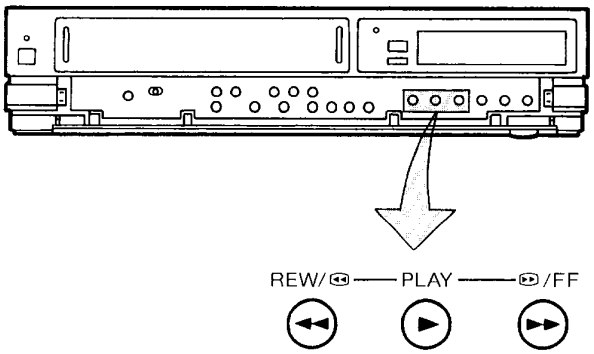
- Press the Play Button (▶) to continue the normal playback.
- If the Slow playback operation continues for more than 10 minutes, the VTR automatically switches over to the stop mode.
- While playing back a tape in the Super Still or Super Fine Slow playback mode on a TV set equipped with an automatic vertical hold control, the picture may shake vertically. In this case, set the TV set's vertical hold (Auto/Manual) selector to the "Manual" position, and adjust with the vertical hold control.

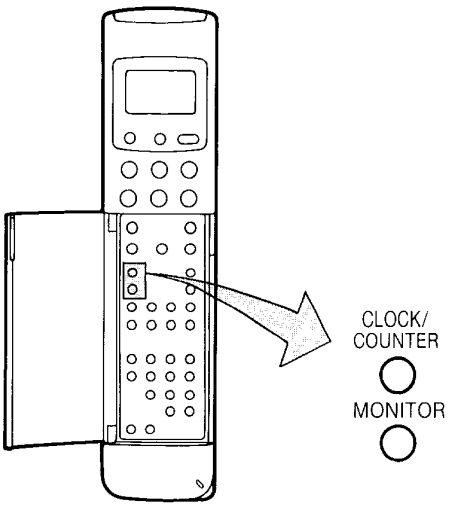
Slow Tracking Control

- When noise bars appear during Super Still, Super Still Advance or Super Fine Slow playback, switch over to slow playback and adjust with the Tracking "+" or "−" Button to reduce the noise bars.
- It may not be possible to eliminate the noise bars completely.

- The sound will be played back only during normal playback.
- When the picture rolls vertically in the Cue or Review mode, adjust the vertical hold control on the TV set.
- Immediately after starting Cue or Review playback, the picture may be distorted. Also, when these modes are cancelled, some momentary picture distortion may occur. However, this is not due to any malfunction.
- Noise which takes the form of horizontal bars appears on the TV in the Cue and Review playback modes. This is not an indication of a malfunction.
- The top of the picture may become distorted in the Cue or Review mode. This is not an indication of a malfunction.

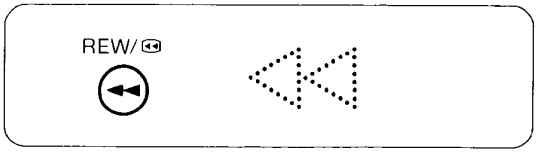
Playback (Cont'd)





Rewind and Fast Forward

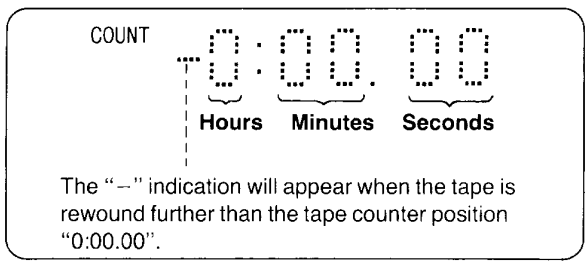
Press the Rewind ◀◀/Review ◀◀ Button to rewind the tape.



Press the Fast Forward ▶▶/Cue ▶▶ Button to wind the tape forward rapidly.

Lap Time Counter

It shows the elapsed recording or playback time.



The "–" indication will appear when the tape is rewound further than the tape counter position "0:00.00".

- If the figures on the Tape Counter do not change during Fast Forward, Rewind or any of the Playback functions, this means that nothing is recorded on that tape section.
- The Tape Counter is automatically reset to "0:00.00" when the video cassette is inserted.
- During playback of NTSC recordings, the Tape Counter does not function correctly.

Clock/Counter Selector

By pressing this button when the VTR On/Off Switch is set to "On", it is possible to change over the display mode of the Clock/Counter Display in the Multi-Function Display from "Clock" to "Counter" Display and vice versa.

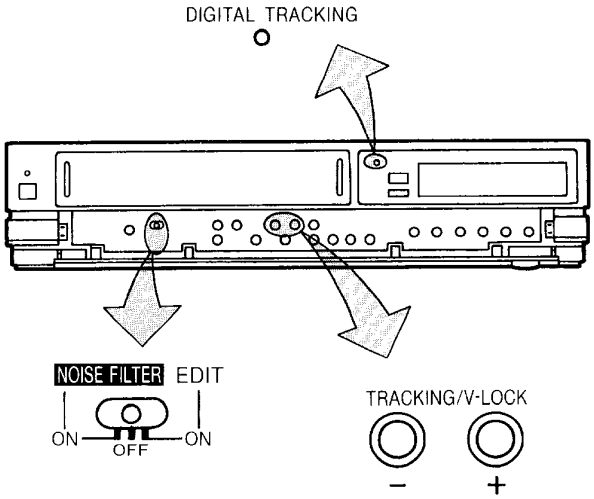
- Even if the selector button is set for "Counter", the display will automatically changes over to "Clock" Display in all the following cases; When you set the VTR On/Off Switch to "Off", adjust the clock to present time, programme a timer recording, check a timer recording programme or perform an OTR.
- When the Clock/Counter Display shows the time, the counter cannot be reset.

Monitoring Function

When the Monitor Button is kept pressed during Playback or Still playback, the broadcast picture of the selected programme position (channel) will be displayed. When this button is released, the picture will change back to the playback picture of the tape.

- When the VTR is connected to the TV set via AV Cable, this function does not work.

Playback (Cont'd)



Digital Tracking

When playback is started after inserting a cassette, and the VTR is turned on, the Digital Tracking function will be activated automatically, the Digital Tracking Indicator will flash for several seconds, and the tracking will be adjusted automatically (after the adjustment, the Digital Tracking Indicator will remain lit).

- During playback, the Digital Tracking function will be activated whenever the playback changes over from an unrecorded part to a recorded part, provided the recorded part is longer than 4 seconds.

- When the picture is distorted by noise bars, press the Tracking "+" or "–" Button to select manual tracking and adjust with these two buttons. The Digital Tracking Indicator goes out.
  To change back to Digital Tracking, press the Tracking "+" and "–" Buttons simultaneously.

Vertical Lock Adjustment

If vertical jitter occurs, adjust with the V-Lock "+" or "–" Button during Still playback.

- When the AC Mains Lead is unplugged or a power failure occurs, perform the vertical lock adjustment again.

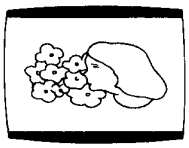
Noise Filter/Edit Selector

EDIT ON: For editing operations such as dubbing.
OFF: For ordinary use of the VTR.
NOISE FILTER ON: For playback of tapes with inferior picture quality caused, for example, by repeated dubbing.

- When the Noise Filter/Edit Selector is set to "EDIT ON", the picture sharpness cannot be adjusted with the Picture Sharpness Control.

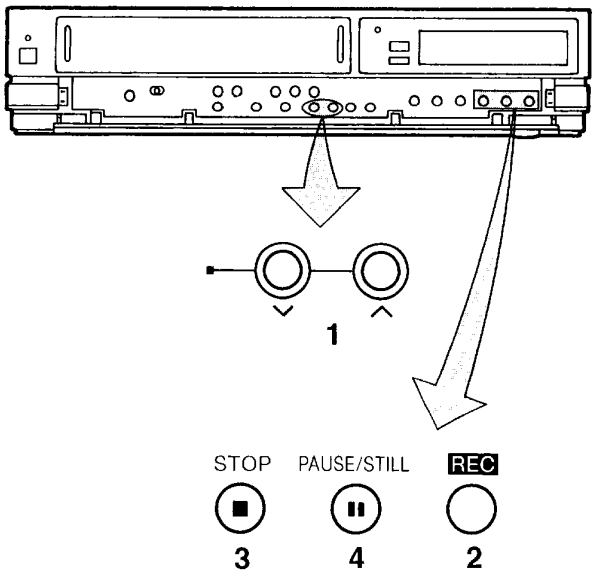
NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.



- Depending on the TV set used, the picture may shrink vertically and black bars may appear both at the top and bottom of the screen. This is not an indication of a malfunction.
- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control. However, TV sets not equipped with a V-HOLD control cannot correct this condition.
- The special playback functions (except normal playback) cannot be used for NTSC playback. This is not an indication of a malfunction.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

Recording from a TV Broadcast Signal

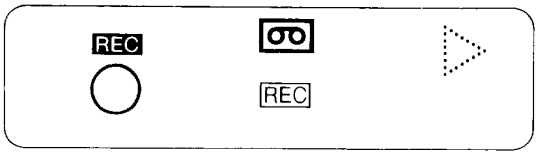


Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.

1 Select on the VTR, the programme position (channel) to be recorded. In order to confirm proper reception, turn on the TV set and select the video playback channel.

2 Press the Record Button.



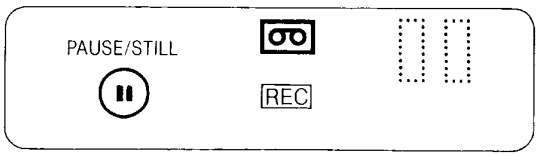
- When a video cassette with broken out tab is inserted, the "📼" indication will flash, and an alarm sound will be produced to indicate that recording is not possible.
- During recording, the programme position (channel) on the VTR cannot be changed.
- To start a recording with the Remote Controller, press the two Record Buttons on the Remote Controller simultaneously.
- When a recording (including OTR and Timer Recording) is started, the tape is played back for a short moment before the actual recording starts, in order to achieve smooth continuation from the previous to the new recording. Therefore, the new recording starts about 1.5 seconds late.

To Finish the Recording

3 Press the Stop Button (■).

If You Wish to Avoid Recording Unwanted Material

4 Press the Pause/Still Button (❚❚) to stop the tape temporarily.



- Press the Pause/Still Button (❚❚) again to continue the recording.
- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will automatically switch over to the stop mode to protect the tape and the video heads.

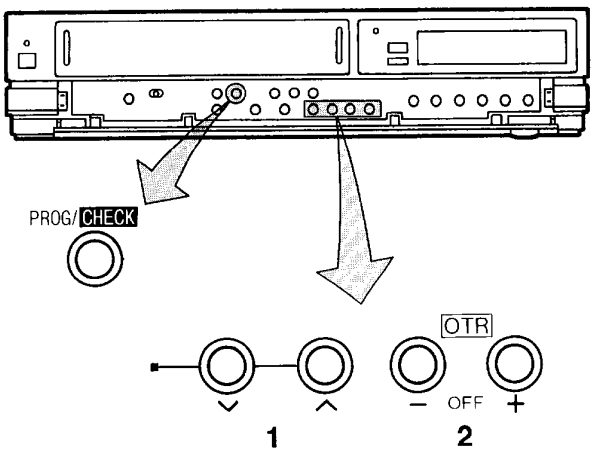
Recording One TV Programme While Watching Another

1 Record (following steps 1 and 2).

2 Select the desired programme position (channel) on your TV set.

Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start by precisely setting ending time to the desired minute, and the VTR will automatically turn itself off when the recording ends.



Preparation

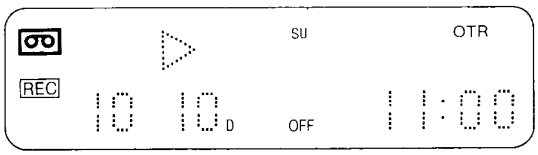
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Make sure that the clock shows the present time correctly.

OTR Function with Immediate Start

For example; OTR recording of a TV programme broadcast to 11:00.

1 Select the programme position (channel) to be recorded.

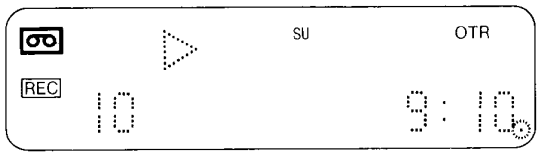
2 Press the OTR Off "+"or "−" Button to set the OTR ending time to 11:00.



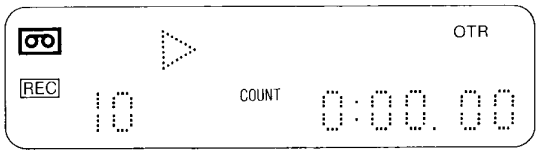
- The "OTR" indicator will be displayed.

- When a video cassette with broken out tab is inserted, the "📼" indication will flash, and an alarm sound will be produced to indicate that recording is not possible.
- When quickly and repeatedly pressing the OTR Off "+" or "−" Button, the corresponding time indication changes in 1-minute steps. When it is kept pressed, the indication changes in 10-minute steps.
- The VTR will automatically switch off, when the OTR is completed. To turn the VTR on again, press the VTR On/Off Switch.

When the Programme/Check Button is pressed once, the present time will be displayed.



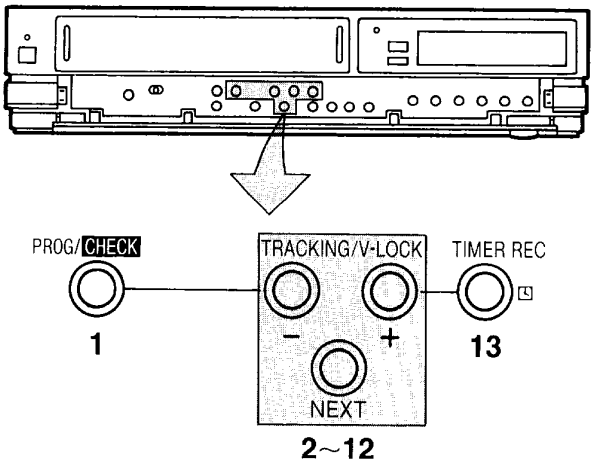
When the Clock/Counter Selector Button (Remote Controller) is pressed during OTR recording, the display will change over to the counter mode.



- When the tape reaches its end during an OTR the VTR will turn itself off.
- Make sure that the OTR Function (One-Touch Timer Recording) does not overlap a programmed timer recording. An OTR always takes precedence over a timer recording.
- It is possible to change the OTR ending time even during the recording.
- To interrupt an OTR, press the VTR On/Off Switch to turn the VTR off.

Timer Recording

The programming of timer recordings is possible both on the VTR itself and via the Remote Control Unit.
Programming of as many as 8 timer recording is possible up to one month in advance.

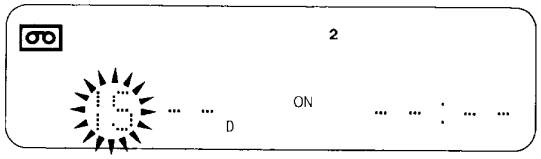


Preparation

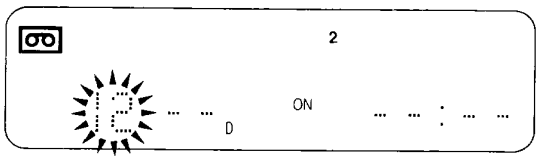
- Make sure that the clock shows the present time correctly.
- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.

For Example:
Programming a timer recording for a TV programme that will be broadcast on Wednesday, October 27, from 10:30 to 11:45, on programme position (channel) 12, on timer programme number 2. (Present date=October 10, 1999)

1 Press the Programme/Check Button to select the next unoccupied timer programme number.

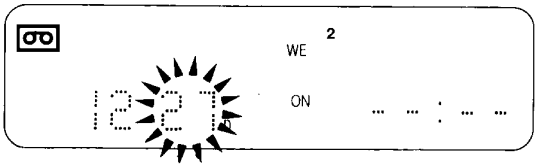


2 Press the "+" or "–" Button to select the programme position (channel) on which the TV programme will be broadcast.



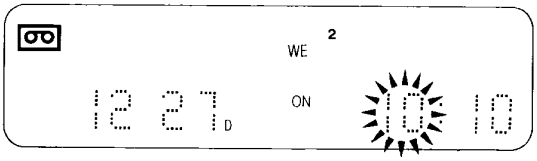
3 Press the Next Button.

4 Press the "+" or "–" Button to set the date.



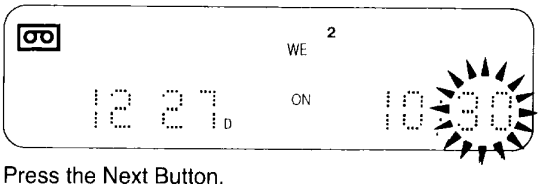
5 Press the Next Button.

6 Press the "+" or "–" Button to select the hour of the starting time of the TV programme.



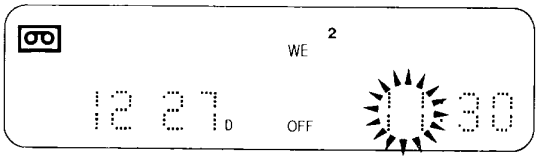
7 Press the Next Button.

8 Press the "+" or "–" Button to select the minute of the starting time of the TV programme.



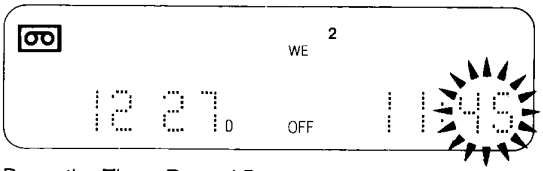
9 Press the Next Button.

10 Press the "+" or "–" Button to select the hour of the end time of the TV programme.

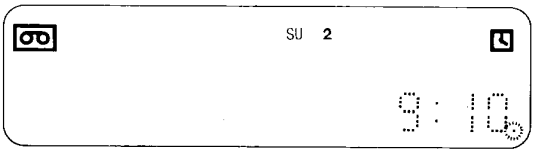


11 Press the Next Button.

12 Press the "+" or "–" Button to select the minute of the end time of the TV programme.



13 Press the Timer Record Button.



Timer Recording (Cont'd)

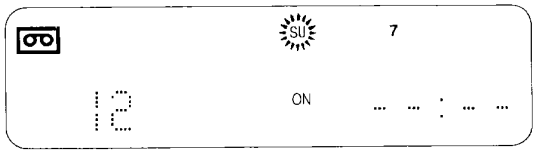
For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 10:30 to 11:45, on programme position (channel) 12, on timer programme number 7.

Programming for everyweek recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 3 on page 21.

4 Press the "−" Button repeatedly until the "SU" Indicator (=Sunday) is lit.



Perform the operation steps 5 to 13.

For Everyday Recording

For Everyday Recording, you have the choice between 3 different modes: Monday through Friday (*1*), Monday through Saturday (*2*), and Sunday through Saturday (*3*).

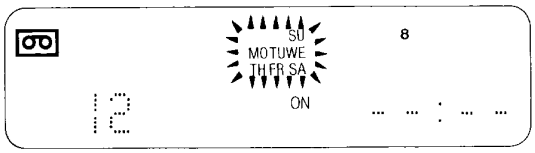
(*1*)	(*2*)	(*3*) SU
MOTUWE	MOTUWE	MOTUWE
TH FR	TH FR SA	TH FR SA

For example:
Programme time for timer recording every day from 10:30 to 11:45 on timer programme number 8.

Programming for everyday recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 3 on page 21.

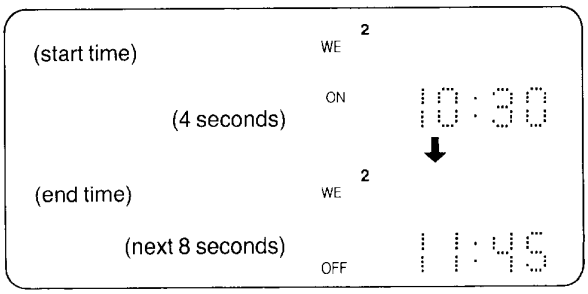
4 Press the "−" Button until the desired type of Everyday Recording (*1*, *2*, *3*) is displayed.



Perform the operation steps 5 to 13.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Record Function is set to "On".
Select the programme number to be checked, by repeatedly pressing the Programme/Check Button.
The preset channel and start and ending times of the timer recording will be indicated for about 12 seconds.



To Cancel a Timer Recording

Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

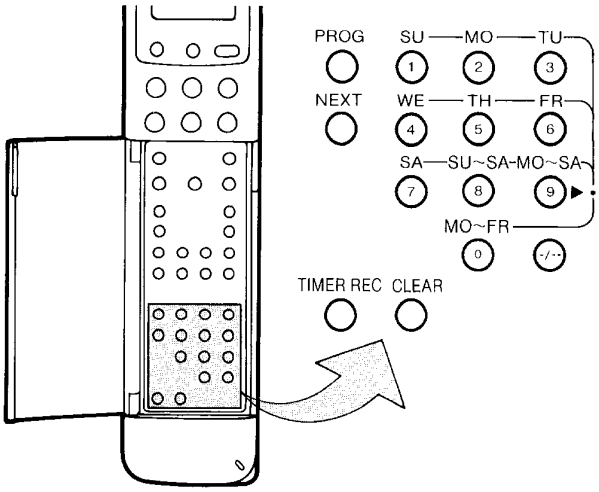
1 Press the Programme/Check Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the "+" and "−" Buttons simultaneously for more than 3 seconds.

- During recording, the programme position (channel) on the VTR cannot be changed.
- When you want to watch TV after setting a timer recording, select the desired channel on the TV set.
- To cancel a timer recording during recording, set the Timer Record Function to "Off".
- It is impossible to confirm programmes of timer recordings while an OTR is being performed.
- To turn the VTR on and use it for playback or recording before the timer recording is performed, set the Timer Record Function to "Off".
- When the Timer Record Function is set to "On" with no video cassette or a video cassette with broken tab inserted, the "📼" and "⏲" indications will flash. The "⏲" indication will also flash, when programming is not completely finished. While it is flashing, an alarm sound will be produced to indicate that recording is not possible.
- If a timer recording is not performed to the end (not enough tape or cancelled by the user), the programmed timer recording data will be cancelled from the memory at 4 a.m. two days later. However, if the Timer Record Function is activated or an OTR recording is being performed at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

Timer Recording (Cont'd)

TIMER RECORDING BY USING THE REMOTE CONTROLLER



How to select the programme position (channel)
To select a figure between 1 and 9, press the numeric button corresponding to the number.
To select a 2-digit figure, first press the "-/--" button and then press the two corresponding numeric buttons one after the other within 5 seconds.

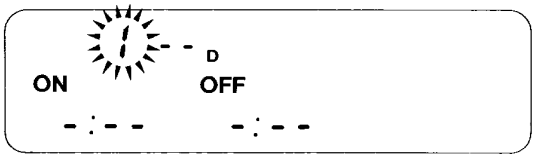
How to set the Date and the Starting & Ending Times for Timer Recording
To select a figure between 0 and 9, first press the numeric button "0" and then press the numeric button corresponding to the number.
To select a 2-digit figure, press the two corresponding numeric buttons one after the other.

2	0	→	2
15	1	→	5
30	3	→	0

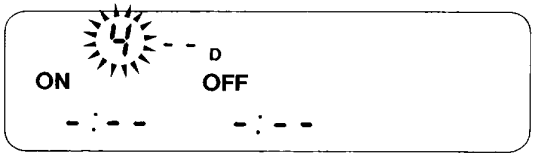
- The second button must be pressed within 5 seconds after the first button.
- Before pressing the Next Button, confirm that the figure that you have input is indicated in the proper decimal position in the Display.
- After inputting the minute, confirm that the minutes are indicated as a 2-digit figure, before pressing the Next Button.
- If the Next Button is pressed while a figure is only indicated in the tens digit, it will be treated as a programming error and will not be accepted.
- However, when no further figure is input within 5 seconds after inputting a single digit, this figure will move to the units digit.
- When pressing the following buttons first, they will immediately be input in the units digit.
  For the date: "4"~"8" Buttons
  For the hour: "3"~"9" Buttons
  For the minute: "6"~"9" Buttons

Example:
Programming a timer recording for a TV programme that will be broadcast on the 3rd of the month, from 7:02 to 7:30, on programme position (channel) 4.

1 Press the Programme Button.

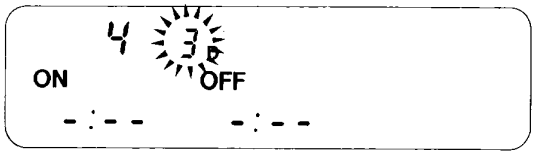


2 Press the Number Buttons to select the programme position (channel) on which the TV programme will be broadcast.



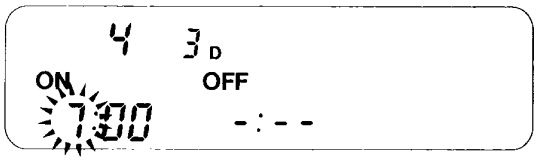
3 Press the Next Button.

4 Press the Number Buttons to set the date.



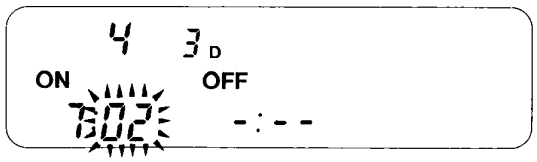
5 Press the Next Button.

6 Press the Number Buttons to select the hour of the starting time of the TV programme.



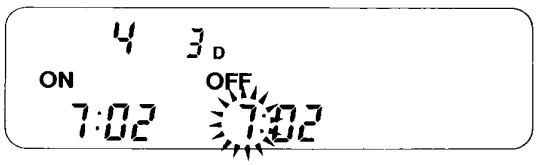
7 Press the Next Button.

8 Press the Number Buttons to select the minute of the starting time of the TV programme.



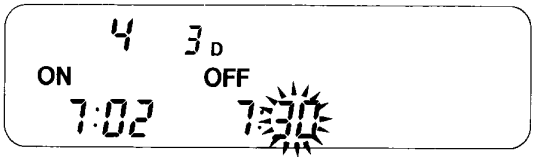
9 Press the Next Button.

10 Press the Number Buttons to select the hour of the end time of the TV programme.



11 Press the Next Button.

12 Press the Number Buttons to select the minute of the end time of the TV programme.



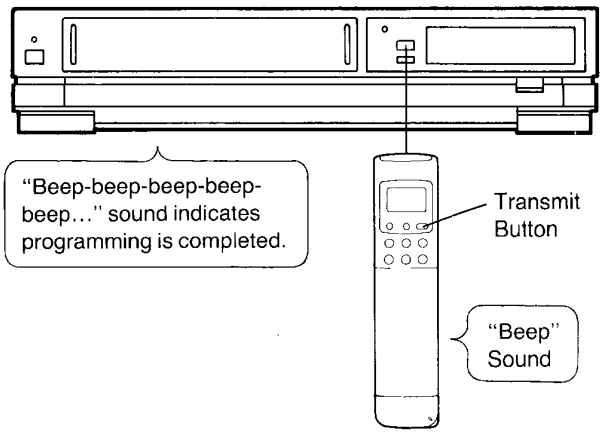
13 Press the Transmit Button.

Timer Recording (Cont'd)

- To immediately programme one more timer recording, press the Programme Button two times after transmitting the programming data of the first timer recording to the VTR. Then programme the second timer recording.
- If no operation is performed on the Remote Controller for more than 25 seconds, it will automatically switch over to the power-saving standby condition and the indications on the Display will disappear. In this case, the data which have not yet been transmitted to the VTR will be cancelled.

Transmit the Programming Data

Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.



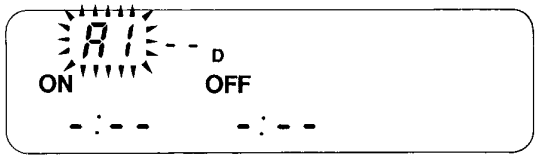
- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- The programming will be done on the next lower unoccupied timer programme number (8–1).
- If all programme numbers are occupied, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you that the programming cannot be made.
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.
- To operate the VTR before the timer recording will be performed, press the Timer Record Button to suspend the timer recording standby condition. After using the VTR, be sure to press the Timer Record Button again, otherwise the timer recording will not be made.

Timer Recording from an External Source

Example:
Programming a timer recording from some other AV equipment connected to the AV Socket, for the 3rd of the month, from 7:02 to 7:30.

1 Press the Programme Button.

2 Press the Input Signal Selector so that the "A1" Indicator appears in the Display of the Remote Controller.



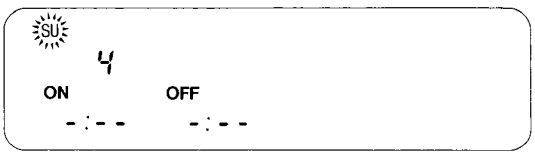
Perform the operation steps 3 to 13, on page 23.

For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 7:02 to 7:30.

Perform the operation steps 1 to 3 on page 23.

4 Press the "9" Button and then the "1" Button within 5 seconds. The "SU" Indication (=Sunday) is lit.

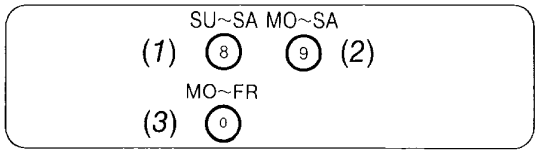


Perform the operation steps 5 to 13.

Timer Recording (Cont'd)

For Everyday Recording

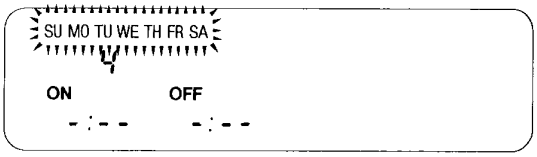
For Everyday Recording, you have the choice between 3 different modes: Sunday through Saturday *(1)*, Monday through Saturday *(2)*, and Monday through Friday *(3)*.



For Example:
Programming a timer recording for a TV programme that is broadcast everyday from 7:02 to 7:30.

Perform the operation steps 1 to 3, on page 23.

4 Press the "9" Button and then the "8", "9" or "0" Button within 5 seconds, according to the desired type of Everyday Recording *(1, 2, 3)*.



Perform the operation steps 5 to 13.

How to set Everyweek and Everyday Recording
First press the "9" Button and then press the desired Number Button according to the desired type of Everyweek or Everyday Recording.

Everyweek Recording

Sunday	MO~SA (9) →	SU (1)
Monday	MO~SA (9) →	MO (2)
Tuesday	MO~SA (9) →	TU (3)
Wednesday	MO~SA (9) →	WE (4)
Thursday	MO~SA (9) →	TH (5)
Friday	MO~SA (9) →	FR (6)
Saturday	MO~SA (9) →	SA (7)

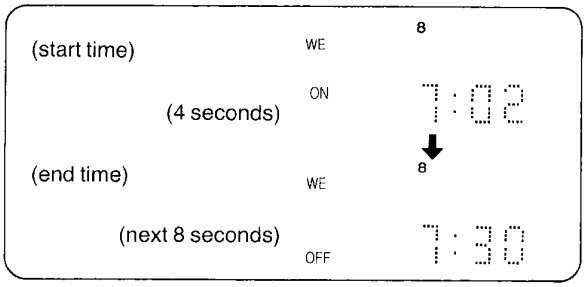
Everyday Recording

Sunday through Saturday	MO~SA (9) →	SU~SA (8)
Monday through Saturday	MO~SA (9) →	MO~SA (9)
Monday through Friday	MO~SA (9) →	MO~FR (0)

The second button must be pressed within 5 seconds after the first button.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Recording Function is activated (Indicator "⏲" is lit).
Make sure that no figures are indicated in the Display of the Remote Controller.
Select the number of the timer programme to be checked, by repeatedly pressing the Transmit Button.
The preset channel and the starting and ending times of the timer recording will be indicated for about 12 seconds.



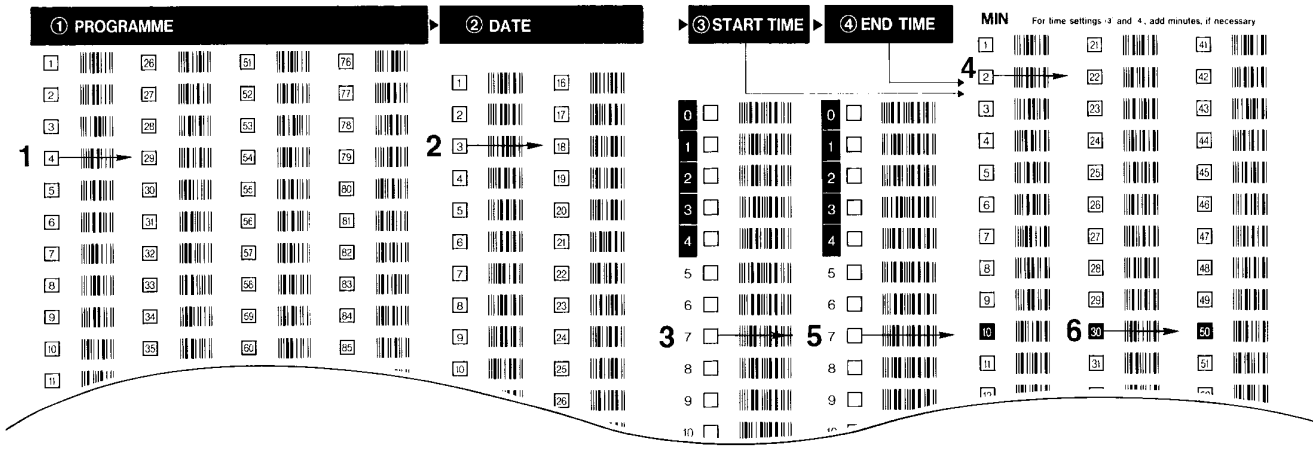
To Cancel a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Recording Function is not activated (Indicator "⏲" is not lit).

1 Press the Transmit Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the Clear Button.

Timer Recording (Cont'd)



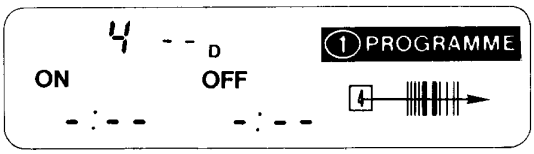
TIMER RECORDING BY USING THE DIGITAL SCANNER IN THE REMOTE CONTROLLER

Tracing the Bar Codes

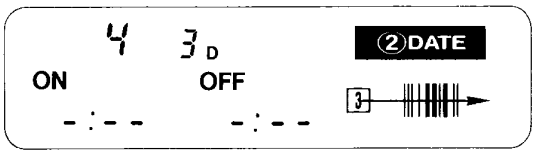
Example: When programming a timer recording for a programme that will be broadcast on channel position 4 on the 3rd of the month, from 7:02 to 7:30, trace the bar codes in the order of the numbered arrows shown.

- Press the Digital Scanner On/Off Button to turn it "ON".

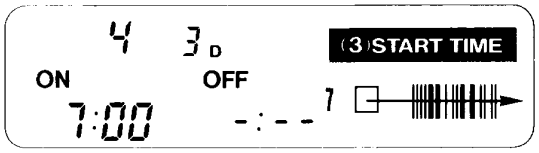
1 Trace the bar code for "PROGRAMME".



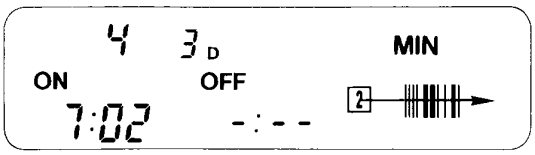
2 Trace the bar code for "DATE".



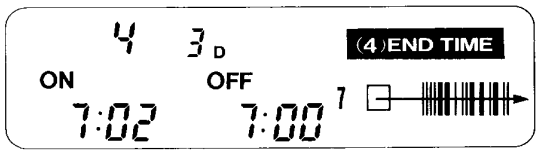
3 Trace the bar code for "START TIME".



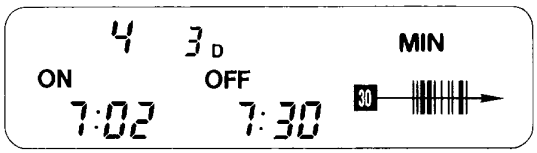
4 Trace the bar code for "MIN".



5 Trace the bar code for "END TIME".



6 Trace the bar code for "MIN".

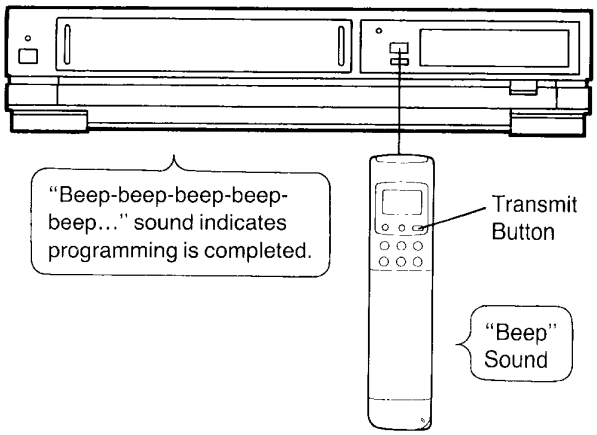


- The "Bee Bee Bee Bee Beeeeep" sound signals that the scanner is now ready for data transmission.
- When no sound is heard, read the bar codes once again.
- If more than one bar code is read in the same group, only the last code will be effective.
- If the "CANCEL" bar code is read, all bar codes that have been read so far will be cancelled.

Timer Recording (Cont'd)

Transmit the Programming Data

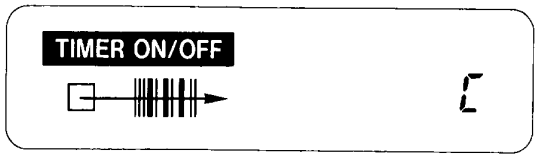
Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.



- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- The programming will be done on the next lower unoccupied timer programme number (8–1).
- If all programme numbers are occupied, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you that the programming cannot be made.
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.

Timer On/Off

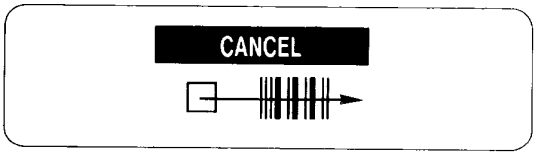
After programming a timer recording, the VTR is in the timer recording standby mode and cannot be used for any other operation, such as playback. If some other operation is desired, first trace the "TIMER ON/OFF" bar code and transmit it to the VTR with the Transmit Button.
To later reset the VTR to the timer recording standby mode, trace the "TIMER ON/OFF" bar code again and transmit it with the Transmit Button.



For Programming More Than One Timer Recording in Succession

Repeat the following operation steps 1–3.

1 Trace the "CANCEL" bar code on the Programming Sheet.

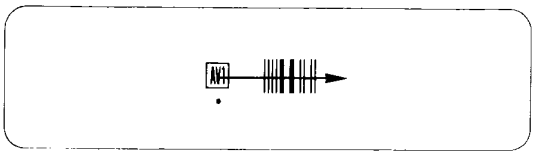


2 Trace the bar codes for "PROGRAMME", "DATE", "START TIME" and "END TIME".

3 Confirm that the present time is displayed on the Multi-Function Display of the VTR, and transmit the data.
- If the next timer programming data are transmitted while the previous timer programming data are still being displayed, the displayed timer recording data will be cancelled.

Timer Recording from an External Source

For timer recording of signals input from some other AV equipment via the AV Socket on this VTR, trace the "AV 1" or "AV" bar code in the "PROGRAMME" column.

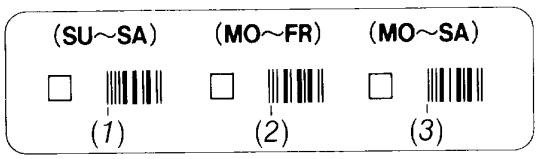


Note:
The "AV 2" bar code cannot be used with this VTR.

Timer Recording (Cont'd)

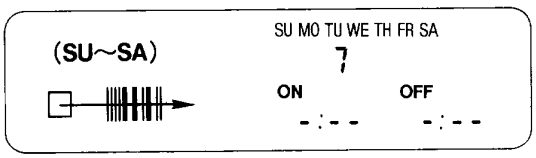
For Everyday Recording

When programming an everyday recording using the bar codes, you have the choice between 3 different modes: Sunday through Saturday (*1*), Monday through Friday (*2*), and Monday through Saturday (*3*).

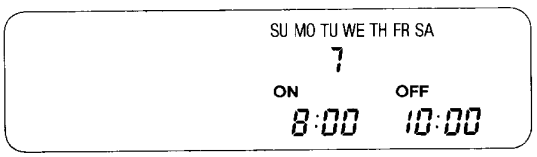


1 Turn on the Digital Scanner and trace the "PROGRAMME" bar code.

2 Trace the desired "EVERYDAY" bar code (*1*, *2*, *3*).



3 Trace the bar codes for "START TIME", "END TIME", and transmit the data to the VTR.

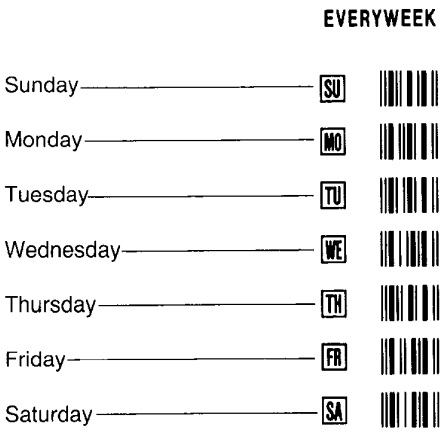


- Everyday recording will be performed from that day on.
- If a "DATE" bar code is traced after tracing the "EVERYDAY" bar code, everyday recording will not be performed.

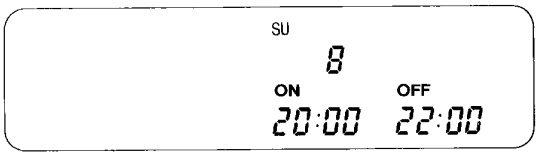
For Everyweek Recording

1 Turn on the Digital Scanner and trace the "PROGRAMME" bar code.

2 Trace the bar code for the desired day of the week among the "EVERYWEEK" bar codes.



3 Trace the bar codes for "START TIME", "END TIME", and transmit the data to the VTR.

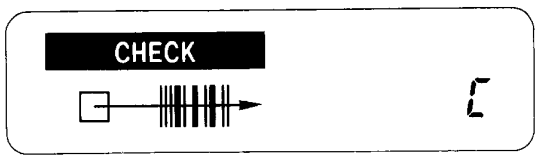


- Everyweek recording will be performed from that week on.
- If a "DATE" bar code is traced after tracing the "EVERYWEEK" bar code, everyweek recording will not be performed.

To Confirm the Programme of a Timer Recording

To perform this operation, the VTR must be turned on or it must be in the timer recording standby mode (⏲ indication is lit).

1 Trace the "CHECK" bar code.



2 Perform transmission.
- After releasing the Transmit Button, the programmed data will be displayed for about 12 seconds on the Multi-Function Display.
- At every push of the Transmit Button, the timer programme number advances to the next higher number.

To Cancel a Programmed Timer Recording

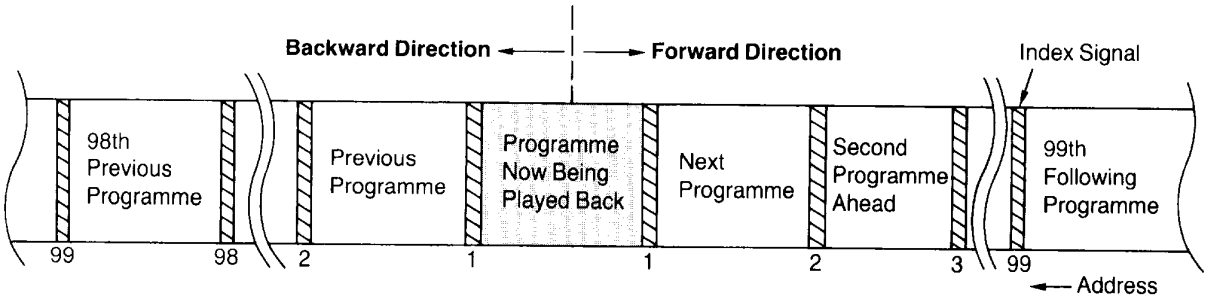
To perform this operation, the VTR must be turned on but not be in any of the recording or playback operation modes, or it must be in the timer recording standby mode (⏲ indication is lit). To cancel a programmed timer recording, its data must be displayed on the Multi-Function Display. If they are no longer displayed, first, trace the "CHECK" bar code and perform transmission (several times, if necessary, until the programme you want to cancel is displayed). Then, within 12 seconds:

1 Trace the "CANCEL" bar code.

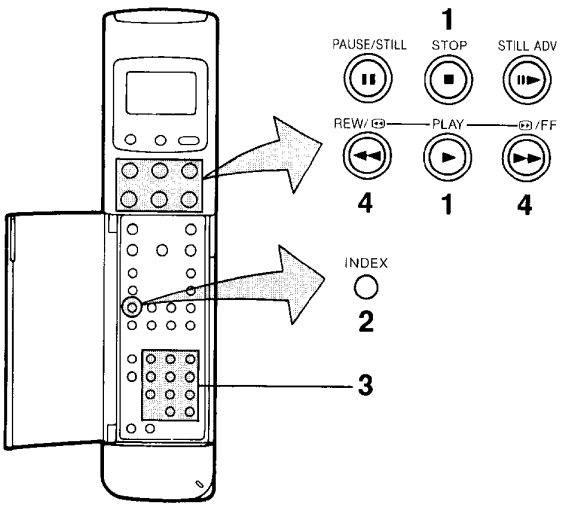
2 Perform transmission.
- To programme a new timer recording, perform the programming from the beginning.

VHS Index Search System

How to Count the Addresses



With the VHS Index Search function, up to 99 addresses (places where index signals are recorded) can be skipped to directly locate the beginning of the desired programme in both forward and reverse direction in the Fast Forward or Rewind mode.



1 Press the Play Button (▶) or Stop Button (■).

2 Press the Index Button. The "S" Indicator lights up.

3 Input the number of programmes that you want to skip by pressing the number buttons.

- If you made a mistake, press the Index Button twice and input the correct number.

4 Press the Rewind ◀◀/Review ⏪ or Fast Forward ▶▶/Cue ⏩ Button to start the VHS Index Search function (the VTR will switch to the rewind or fast-forward mode).

- Every time an index signal (address) is skipped the number in the Address Indication decreases by one.
- When the preset address is reached, the Tape Counter Indication will appear in place of the Address Indication, and the normal playback will start.
- To abort the Index Search function midway, press the Play or the Stop Button.

Recording of Index Signals

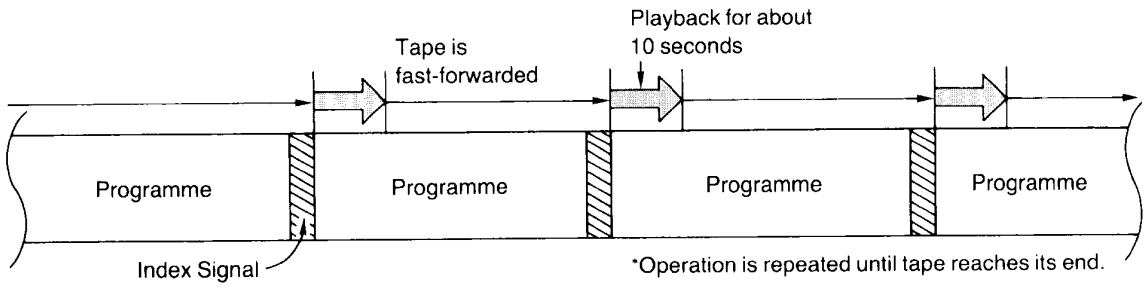
While recording an index signal, the indication "WRITE" on the Multi-Function Display lights up for a few seconds. Index signals will be recorded automatically in the following cases:

- At the tape position at which the Record Button is pressed to start recording.
- At the tape position at which a Timer Recording is started.
- At the tape position at which an OTR recording is started.
- When pressing the Record Button during recording.

- When activating the VHS Index Search function from the Still playback mode, the Playback will start when the selected programme is reached.
- If the VHS Index Search function is started extremely close to the beginning of the next programme (place where an address signal is recorded) or from the beginning of the tape, the first address may not be counted.
- If there are unrecorded parts on the tape, or if recordings have repeatedly been made on the same tape portion, the VHS Index Search function may not work correctly.
- The VHS Index Search function can only count the addresses correctly, if the index signals are spaced at least 3 minutes.

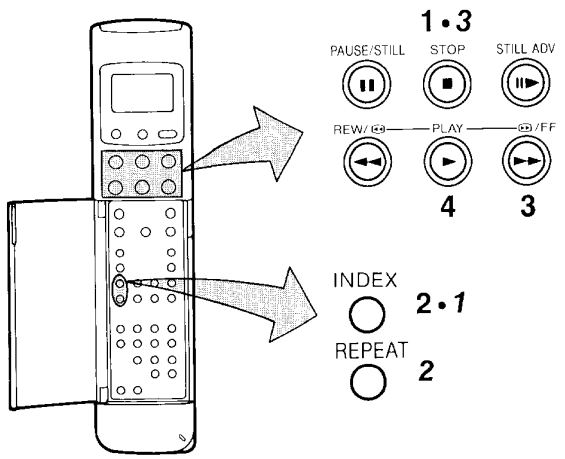
Intro Scan Function

How the Intro Scan Function Works...



The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another. This is convenient for quick checking what programmes are on a tape, or to find the desired instalment of a TV series you have recorded on a tape.

Intro Scan Operation



1 Insert a video cassette.
(Put the VTR in the stop mode.)

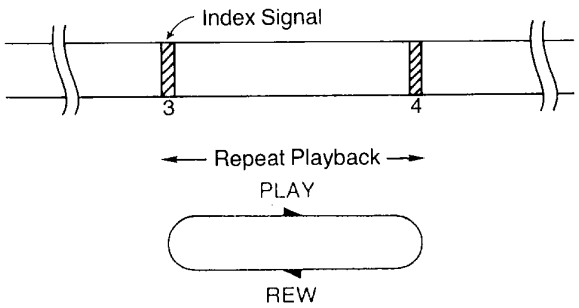
2 Press the Index Button. The "S" Indicator lights up.

3 Press the Fast Forward ▶▶/Cue ⏩ Button.
(The Intro Scan starts.)

4 When the desired scene is reached, press the Play Button (▶).

- The Intro Scan function may not be activated for the first programme recorded close to the beginning of the tape.
- The Intro Scan function may not be activated, if the interval between programme starts is less than 3 minutes.

Performing Index Repeat Playback



1 Press the Index Button.

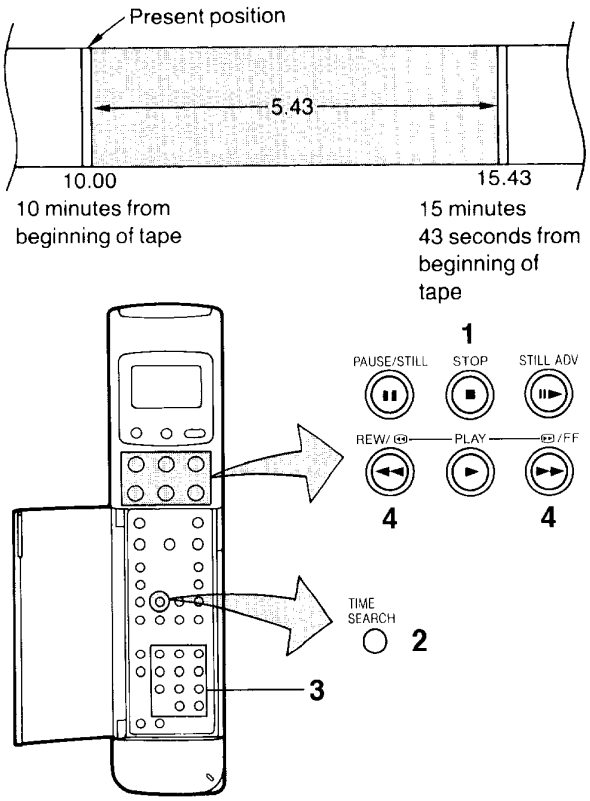
2 Press the Repeat Button. The "RS" Indicator lights up and playback starts.
- When the next index signal is found, the tape will be rewound. When the index signal, where the playback is to start, is found, the playback will restart. In this way, automatically repeated playback can be performed for a tape portion as defined by the number of index signals that are skipped.

3 To stop the Index Repeat playback, press the Stop Button.

If Index Repeat playback is performed on a tape for long periods of time, the picture quality may become inferior.

Time Search

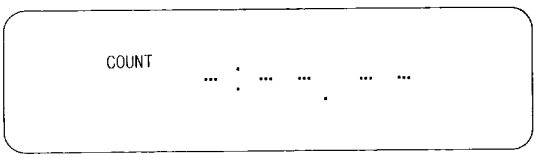
The Time Search function makes it possible to quickly advance the tape from any position by inputting the exact desired amount of playback time of the part that you want to skip.



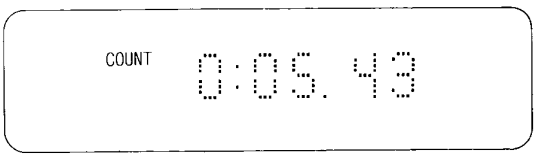
Time Search from the Stop Mode

1 Put the VTR in the stop mode.

2 Press the Time Search Button.
The indication in the Multi-Function Display changes as shown below.



3 Input the time of the desired scene.
- The time is input by pressing the number buttons in the order: hour, minute, second.
- The "–" indication will be counted as "0".



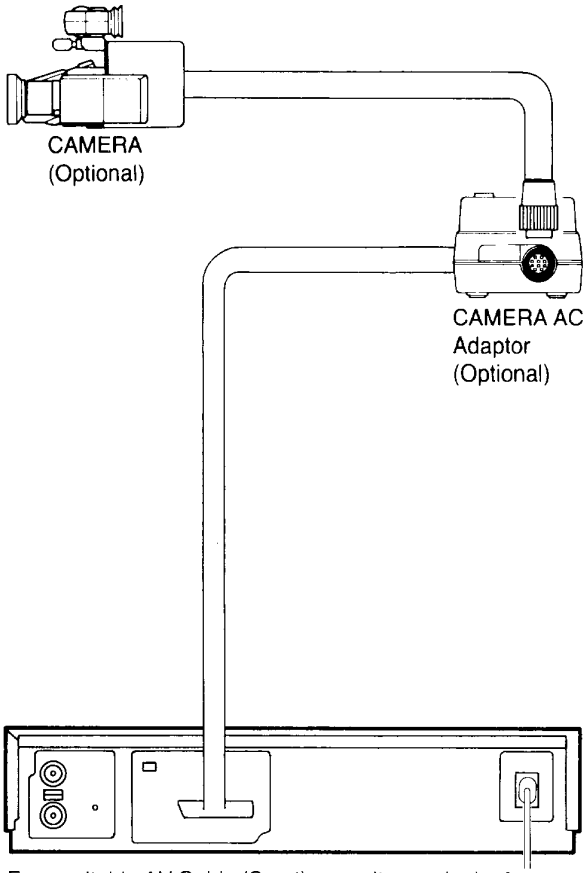
4 Press the Fast Forward ▶▶/Cue ⏩ Button or the Rewind ◀◀/Review ⏪ Button.
The playback starts after rewinding or fast forwarding to the tape position of the designated time.

Time Search from the Play Mode

The operation is the same as that for the stop mode but in operation step 4, the Cue or Review playback is performed to the tape position of the designated time and the playback will then start.
If the time search function is activated during playback, a time of up to 59 minutes 59 seconds can be input.

- The numbers in the Tape Counter do not change during parts of the tape on which there is no recording.
- When the tape is inserted, the Tape Counter will automatically be reset to "0:00.00".

Camera Recording



For a suitable AV Cable (Scart) consult your dealer for advice.

Preparation

- Connect the Video Camera via the Camera AC Adaptor to the VTR as shown in the illustration above.
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.

1 Turn the Camera AC Adaptor on and make the necessary adjustments on the camera.
Refer to the operating instructions of the camera you are using.

2 Press the Record Button on the VTR to start recording.

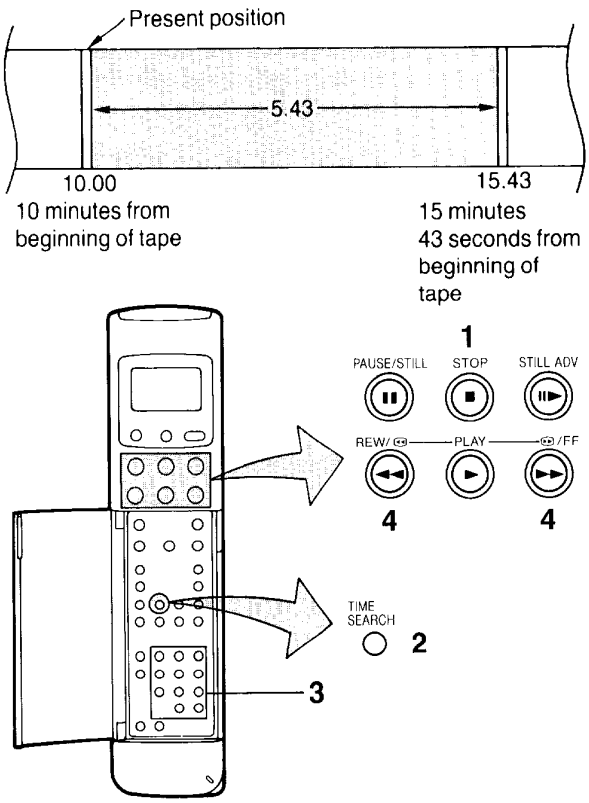
Avoid recording unwanted material:
Press the Pause/Still Button (❚❚) of the VTR, and the recording will stop temporarily. To restart recording, press the Pause/Still Button (❚❚), again.

3 Press the Stop Button (■) on the VTR to stop the recording.

- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will stop automatically to protect the tape and the video heads.
- Even if the video camera is equipped with video recorder remote control functions, this VTR can not be remote-controlled from the camera.

Time Search

The Time Search function makes it possible to quickly advance the tape from any position by inputting the exact desired amount of playback time of the part that you want to skip.

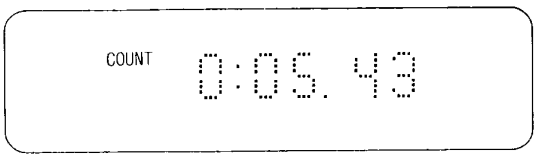


Time Search from the Stop Mode

1 Put the VTR in the stop mode.

2 Press the Time Search Button.
The indication in the Multi-Function Display changes as shown below.

3 Input the time of the desired scene.
- The time is input by pressing the number buttons in the order: hour, minute, second.
- The "–" indication will be counted as "0".



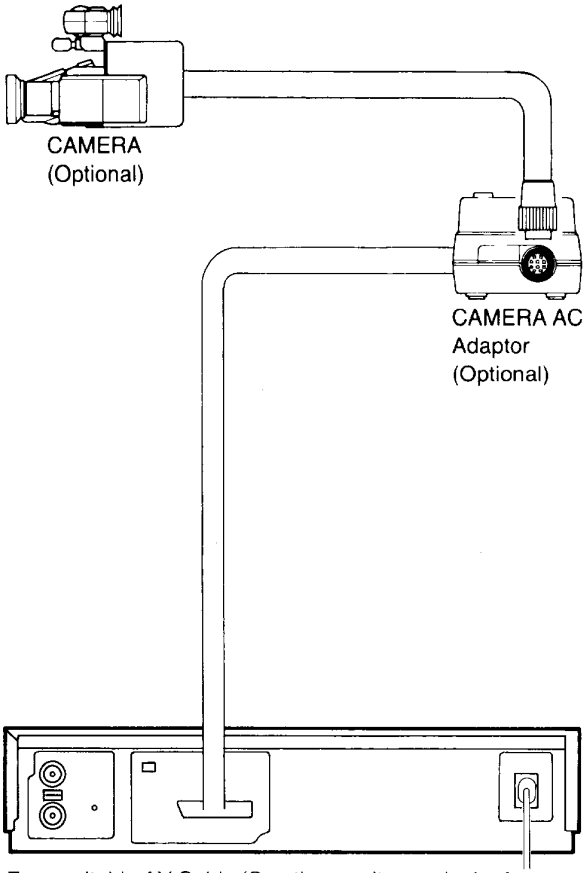
4 Press the Fast Forward ▶▶/Cue ⏩ Button or the Rewind ◀◀/Review ⏪ Button.
The playback starts after rewinding or fast forwarding to the tape position of the designated time.

Time Search from the Play Mode

The operation is the same as that for the stop mode but in operation step 4, the Cue or Review playback is performed to the tape position of the designated time and the playback will then start.
If the time search function is activated during playback, a time of up to 59 minutes 59 seconds can be input.

- The numbers in the Tape Counter do not change during parts of the tape on which there is no recording.
- When the tape is inserted, the Tape Counter will automatically be reset to "0:00.00".

Camera Recording



For a suitable AV Cable (Scart) consult your dealer for advice.

Preparation

- Connect the Video Camera via the Camera AC Adaptor to the VTR as shown in the illustration above.
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.

1 Turn the Camera AC Adaptor on and make the necessary adjustments on the camera.
Refer to the operating instructions of the camera you are using.

2 Press the Record Button on the VTR to start recording.

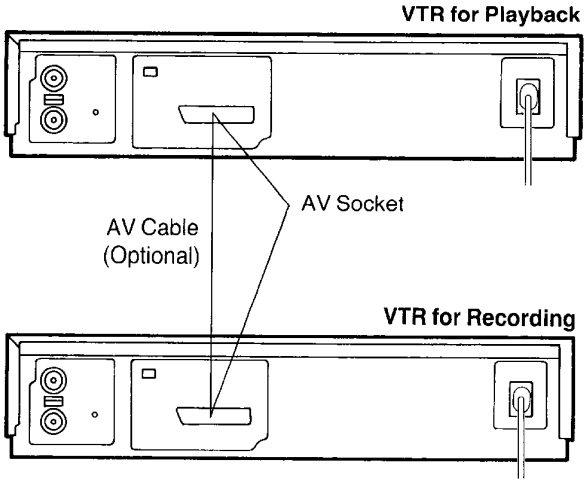
Avoid recording unwanted material:
Press the Pause/Still Button (❚❚) of the VTR, and the recording will stop temporarily. To restart recording, press the Pause/Still Button (❚❚), again.

3 Press the Stop Button (■) on the VTR to stop the recording.

- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will stop automatically to protect the tape and the video heads.
- Even if the video camera is equipped with video recorder remote control functions, this VTR can not be remote-controlled from the camera.

Dubbing (Copying)

Dubbing (copying) from one video cassette to another.



Preparation

- Make the necessary connections as shown in the connection diagram.
- Press the VTR On/Off Switches to turn both VTRs on.
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Make sure that the Noise Filter/Edit Selector of both the recording and playback VTRs (if equipped) are in the "EDIT ON" position. Set these switches to "OFF" for ordinary use of the VTRs.
  (The Noise Filter/Edit Selector is on the front panel.)

1 Place the recorded cassette in the playback VTR and a blank video cassette with the erasure prevention tab intact in the recording VTR.

2 Press the Record Button on the recording VTR.

3 Press the Play Button (▶) on the playback VTR.

4 Press the Stop Button (■) on both VTRs to stop the dubbing.

- To assure smooth, noiseless cuts when interrupting the recording, always use the Pause/Still Button (❚❚).
- To obtain smooth cuts when starting the recording from the stop mode:
  1. Play back the last part of the previously recorded material to confirm its ending point, and then press the Pause/Still Button (❚❚).
  2. Press the Record Button.
     (The VTR is still in the pause mode.)
  3. To start recording, press the Pause/Still Button (❚❚) again.
- The picture quality of a re-recorded tape is not as good as that of the original.

Before Requesting Service

Before requesting service, check the following points once again.

SYMPTOM	CAUSE	REMEDY
Power doesn't turn on.	Mains lead is not connected.	Connect mains lead to mains outlet.
	The Timer Record Function is set to "On".	Set the Timer Record Function to "Off".
Power is on but unit doesn't operate.	Safety devices are operating.	Turn off the VTR On/Off Switch, disconnect mains cord from outlet, then reconnect mains cord to mains outlet and turn on the VTR On/Off Switch again.
VTR has turned itself off.	Safety devices are operating.	Turn the VTR on again by pressing the VTR On/Off Switch.
TV programmes cannot be recorded.	Connection of aerial lead is not correct.	Connect aerial lead correctly.
	Reception channel is not properly tuned.	Tune reception channel.
OTR Function (One-Touch Timer Recording) cannot be performed.	Clock is flashing "0:00".	Set clock to present time.
Unattended timer recording cannot be performed.	Recording start or recording stop time setting is incorrect.	Set recording start and recording stop time correctly.
	The Timer Record Function is set to "Off".	Set the Timer Record Function to "On".
	Clock shows incorrect time.	Adjust clock to present time.
	Clock is flashing "0:00".	Set clock time and perform timer setting.
Recording via AV Socket cannot be performed.	The programme position "A1" is not selected.	Select the programme position "A1".

Before Requesting Service (Cont'd)

SYMPTOM	CAUSE	REMEDY
Playback picture is not in colour. Playback picture has large amounts of "snow".	Reception channel was not adjusted correctly during recording.	Readjust reception channel correctly.
	TV set is not properly tuned to the video playback channel of the VTR.	Properly tune the TV set to the video playback channel of the VTR.
	The video heads are clogged with dirt.	Consult qualified service personnel.
	The video heads are abraded.	Consult qualified service personnel.
	Tape is old and/or defective.	Use new tape.
Remote Controller does not work.	Remote Controller is not being pointed at Infra-red Receiver Window on the VTR.	Point the Remote Controller at Infra-red Receiver Window on the VTR.
	Distance is too far.	Use the Remote Controller within 7 m from the VTR.
	An obstacle is between Remote Controller and VTR.	Remove obstacle.
	Batteries are exhausted.	Replace batteries.
	Battery polarities (+, −) are reversed.	Insert batteries correctly.
Bar code reading with Remote Controller is impossible.	The Remote Controller is in the power-saving standby condition.	Press the Digital Scanner On/Off Button to turn it "ON" again.
	The bar code has been traced too slowly.	Trace the bar code quickly.
	The bar code was not traced all the way from the Small Box past the last bar.	Trace the bar code correctly.
	The bar code was not traced straight.	Trace the bar code straight from left to right.
	The Bar Code Reading Section is clogged with dirt.	Clean the Bar Code Reading Section. (See page 7.)
Transmission from the Remote Controller to the VTR cannot be performed.	The VTR is turned off.	Turn the VTR on.
	The VTR is in an operation mode.	Put the VTR into the stop mode.
	There is no unoccupied timer programme number left.	A maximum of 8 timer recordings can be programmed at the same time.
	Reading a bar code was not followed by a "beep" sound from the Remote Controller.	Perform the bar code reading again.
	The transmission was not followed by a repeated "beep" sound from the VTR.	Keep pressing the Transmit Button until the confirmation sound is heard.

Specifications

NV-J40B...(U.K. model)

Information for Your Safety

Power Source:	220–240 V AC 50–60 Hz
Power Consumption:	Approx. 26 watts

Video Recording System:	2 rotary heads, helical scanning system		
Video Heads:	3 heads		
Tape Speed:	23.39 mm/sec.		
Tape Format:	VHS tape		
Record/Playback Time:	240 min. with NV-E240		
FF/REW Time:	Approx. 2.5 min. with NV-E180		
VIDEO			
Television System:	CCIR; 625 lines, 50 fields, PAL colour signal		
Modulation System:	Luminance; FM azimuth recording		
	Colour signal; converted subcarrier phase shift recording		
Input Level:	AV;	1.0 Vp-p,	75 ohm
Output Level:	AV;	1.0 Vp-p,	75 ohm
	RF Modulated;	UHF channel 36 (±4);	75 ohm, terminated
AUDIO			
Input Level:	AV;	more than −6 dBV,	10 kohm
Output Level:	AV;	−6 dBV,	less than 1 kohm
Audio Track:	1 track (Normal-mono only)		
Video Horizontal Resolution:	Colour; more than 240 lines		
Signal-to-Noise Ratio:	Video; more than 43 dB		
	Audio; more than 43 dB		
Audio Frequency Response:	80 Hz–10 kHz		
Operating Temperature:	5°C–40°C		
Operating Humidity:	35%–80%		
Weight:	5.0 kg		
Dimensions:	380 (W)×82 (H)×344.5 (D) mm		
Standard Accessories:	1 pc. DIN-DIN Coaxial Cable		
	1 pc. Remote Controller		
	2 pcs. "R6" size batteries		
	1 pc. AC Mains Lead		
	1 pc. Programming Sheet		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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